I. AMENDMENT

Listing of Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-29. (Canceled)

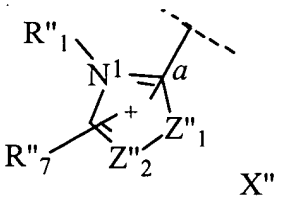
30. (Currently amended) ~~The composition of claim 28, wherein the dye is~~ A dyeing composition for dyeing keratinous fibres comprising, in an appropriate dyeing medium, at least one cationic tertiary para-phenylenediamine comprising a pyrrolidine ring, and a dicationic diazo dye of general formula Vb

$$W_7\text{-}N{=}N{-}W_8\text{-}N{=}N{-}W_9$$

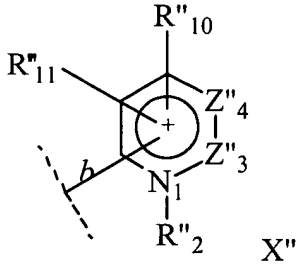
(Vb)

in which

W_7 and W_9 represent independently of each other a heteroaromatic radical represented by formulae (C) and (D) below:

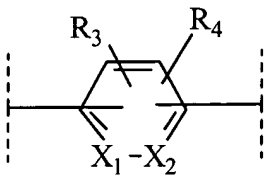


(C)



(D)

W_8 represents a carbon-based aromatic, pyridine or pyridazinyl group of formula (E)



(E)

in which formulae (C), (D), (E):

$X"_1$ represents a nitrogen atom or a radical $CR"_5$

$X"_2$ represents a nitrogen atom or a radical $CR"_6$

$Z"_1$ represents an oxygen or sulphur atom or a radical $NR"_8$,

$Z"_2$ represents a nitrogen atom or a radical $CR"_9$,

$Z"_3$ represents a nitrogen atom or a radical $CR"_{12}$,

$Z"_4$ represents a nitrogen atom or a radical $CR"_{13}$,

the bond *a* of the 5-membered cationic ring of formula (C) is linked to the azo group of formula (Vb),

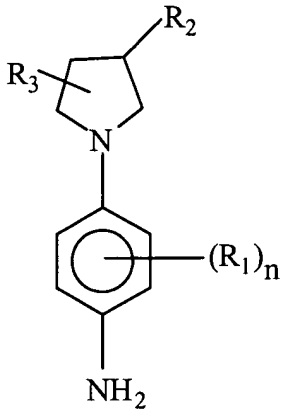
the bond *b* of the 6-membered cationic ring of formula (D) is linked to the azo group of formula (Vb)

$R"_3$, $R"_4$, $R"_5$, $R"_6$, $R"_7$, $R"_9$, $R"_{10}$, $R"_{11}$, $R"_{12}$ and $R"_{13}$, represent, together or independently of each other, a hydrogen atom, a linear or branched, saturated or unsaturated C_1-C_{16} hydrocarbon-based chain, which can form one or more 3- to 6-membered carbon-based rings, one or more carbon atoms of the carbon-based chain of which may be replaced with an oxygen, nitrogen or sulphur atom or with an SO_2 group, and the carbon atoms of which may be, independently of each other, substituted with one or more halogen atoms; $R"_3$, $R"_4$, $R"_5$, $R"_6$, $R"_7$, $R"_9$, $R"_{10}$, $R"_{11}$, $R"_{12}$ and $R"_{13}$ not comprising a peroxide bond or diazo or nitroso radicals,

$R"_7$ with $R"_9$, $R"_{10}$ with $R"_{11}$ and $R"_{12}$ with $R"_{13}$ can form a carbon-based aromatic ring, such as a phenyl,

X" is an organic or mineral anion[[.]];and

wherein said cationic tertiary paraphenylenediamine containing a pyrrolidine ring corresponds to formula I:



(I)

in which

n varies from 0 to 4, it being understood that when n is greater than or equal to 2, then the radicals R_1 may be identical or different,

R_1 represents a halogen atom; a saturated or unsaturated, aliphatic or alicylic, C_1-C_6 hydrocarbon chain, it being possible for the chain to contain one or more oxygen, nitrogen, silicon or sulphur atoms or an SO_2 group, and it being possible for the chain to be substituted with one or more hydroxyl or amino radicals; an onium radical Z, the radical R_1 not containing a peroxide bond, or diazo, nitro or nitroso radicals,

R_2 represents an onium radical Z or a radical –X-C=NR_8-NR_9R_{10} in which X represents an oxygen atom or a radical –NR_{11} and R_8, R_9, R_{10} and R_{11} represent a hydrogen atom, a C_1-C_4 alkyl radical or a C_1-C_4 hydroxyalkyl radical,

R_3 represents a hydrogen atom or a hydroxyl radical.

31. (Original) The composition of claim 30, wherein the dye is selected from the group consisting of:

1,3-dimethyl-2-[4-(1,3-dimethyl(imidazol-1-ium)-2-ylazo)phenylazo]imidazol-1-ium.

1,4-dimethyl-3-[4-(1,4-dimethyl(triazol-2-ium)-3-ylazo)phenylazo]triazol-2-ium.

1-methyl-2-[4-(1-methyl(pyridin-1-ium)-2-ylazo)phenylazo]pyridin-1-ium.

1-methyl-3-[4-(1-methyl(pyridin-1-ium)-3-ylazo)phenylazo]pyridin-1-ium.

1,3-dimethyl-2-[4-(3-methyl(thiazol-3-ium)-2-ylazo)phenylazo]imidazol-1-ium.

1,4-dimethyl-3-[4-(3-methyl(thiazol-3-ium)-2-ylazo)phenylazo]triazol-2-ium.

1,3-dimethyl-2-[4-(1,4-dimethyl(triazol-2-ium)-3-ylazo)phenylazo]imidazol-1-ium.

1-methyl-2-[4-(3-methyl(thiazol-3-ium)-2-ylazo)phenylazo]pyridin-1-ium.

1-methyl-3-[4-(3-methyl(thiazol-3-ium)-2-ylazo)phenylazo]pyridin-1-ium.

1,3-dimethyl-2-[4-(1-methyl(pyridin-1-ium)-2-ylazo)phenylazo]imidazol-1-ium.

1,4-dimethyl-3-[4-(1-methyl(pyridin-1-ium)-2-ylazo)-phenylazo]-triazol-2-ium.

1,3-dimethyl-2-[4-(1-(2-hydroxyethyl)(pyridin-1-ium)-2-ylazo)phenylazo]imidazol-1-ium.

1,4-dimethyl-3-[4-(1-(2-hydroxyethyl)(pyridin-1-ium)-2-ylazo)phenylazo]triazol-2-ium.

1,3-dimethyl-2-[4-(1-methyl(pyridin-1-ium)-3-ylazo)phenylazo]imidazol-1-ium.

1,4-dimethyl-3-[4-(1-methyl(pyridin-1-ium)-3-ylazo)phenylazo]triazol-2-ium.

1,3-dimethyl-2-[4-(1-(2-hydroxyethyl)(pyridin-1-ium)-3-ylazo)phenylazo]imidazol-1-ium.

1,4-dimethyl-3-[4-(1-(2-hydroxyethyl)(pyridin-1-ium)-3-ylazo)phenylazo]triazol-2-ium.

1,3-dimethyl-2-[4-(1,3-dimethyl(imidazol-1-ium)-2-ylazo)-3-methoxyphenylazo]imidazol-1-ium.

1,3-dimethyl-2-[4-(1,4-dimethyl(triazol-2-ium)-3-ylazo)-3-methoxyphenylazo]imidazol-1-ium.

1,3-dimethyl-2-[4-(1-methyl(pyridin-1-ium)-2-ylazo)-3-methoxyphenylazo]imidazol-1-ium.

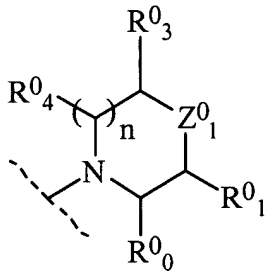
32-39. (Canceled)

40. (Currently amended) ~~The composition of claim 28, wherein the dye is~~ A dyeing composition for dyeing keratinous fibres comprising, in an appropriate dyeing medium, at least one cationic tertiary para-phenylenediamine comprising a pyrrolidine ring, and a monocationic monoazo dye of formula (Vk)

$$W^0_1-W^0_2-N=N-W^0_3$$

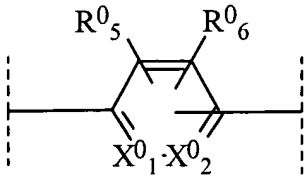
in which

W^0_1 represents a 5-, 6-, 7- or 8-membered heterocycle of formula (II^0) below



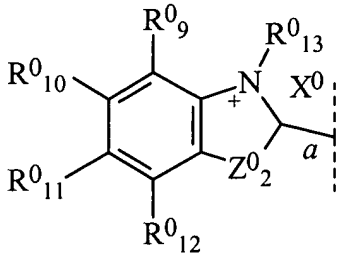
formula (II^0)

W^0_2 represents a divalent carbon-based aromatic, pyridine or pyridazine group of formula (III^0) below



formula (III^0)

W^0_3 represents a cationic heteroaromatic radical represented by formula (IV^0) below:



(IV^0)

in which formulae (II^0), (III^0) and (IV^0):

n = 0, 1, 2 or 3, it being understood that when n is greater than or equal to 2, then the radicals R^0_4 may be identical or different,

X^0_1 represents a nitrogen atom or a radical CR^0_7,

X^0_2 represents a nitrogen atom or a radical CR^0_8,

Z^0_1 represents a radical CHR^0_2, an oxygen or sulphur atom or a radical NR^0_{14},

Z^0_2 represents an oxygen or sulphur atom or a radical NR^0_{15}

R^0_0, R^0_1, R^0_2, R^0_3, R^0_4, R^0_5, R^0_6, R^0_7, R^0_8, R^0_9, R^0_{10}, R^0_{11} and R^0_{12}, which may be identical or different, represent a hydrogen atom, a linear or branched C_1-C_{10} hydrocarbon-based chain, which can form one or more 3- to 6-membered carbon-based rings, and which may be saturated or unsaturated, one or more carbon atoms of the carbon-based chain of which may be replaced with an oxygen, nitrogen or sulphur atom or with an SO_2 group, and the carbon atoms of which may be, independently of each other, substituted with one or more halogen atoms; R^0_0, R^0_1, R^0_2, R^0_3, R^0_4, R^0_5, R^0_6, R^0_7, R^0_8, R^0_9, R^0_{11} and R^0_{12} not comprising a peroxide bond or diazo or nitroso radicals,

R^0_{14} represents a hydrogen atom, a linear or branched C_1-C_{10} hydrocarbon-based chain, which can form one or more 3- to 6-membered carbon-based rings, and which may be saturated or unsaturated, one or more carbon atoms of the carbon-based chain of which may be replaced with an oxygen, nitrogen or sulphur atom or with an SO_2 group, and the carbon atoms of which may be, independently of each other, substituted with one or more halogen atoms, R^0_{14} not comprising a peroxide

bond or diazo or nitroso radicals; it being understood that the said oxygen, nitrogen and sulphur atoms are not directly linked to the nitrogen atom bearing the radical R^0_{14},

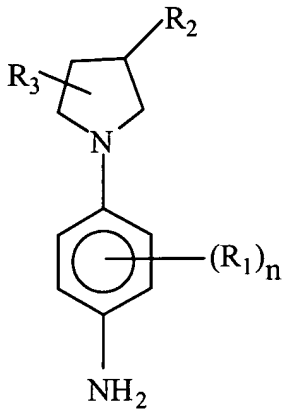
R^0_5 with R^0_6 can form a carbon-based aromatic ring, such as a phenyl,

R^0_{13} and R^0_{15}, which may be identical or different, represent a C_1-C_8 alkyl radical, optionally substituted with one or more radicals chosen from the group consisting of a hydroxyl, a C_1-C_2 alkoxy, a C_2-C_4 (poly)hydroxyalkoxy, an amino, a C_1-C_2 (di)alkylamino, a carboxyl, a sulphonic or an optionally substituted phenyl radical;

the bond a of the cationic ring of formula (IV) is linked to the azo group of formula (I);

X^0 is an organic or mineral anion[[.]];and

wherein said cationic tertiary paraphenylenediamine containing a pyrrolidine ring corresponds to formula I:



(I)

in which

n varies from 0 to 4, it being understood that when n is greater than or equal to 2, then the radicals R_1 may be identical or different,

R_1 represents a halogen atom; a saturated or unsaturated, aliphatic or alicylic, C_1-C_6 hydrocarbon chain, it being possible for the chain to contain one or more oxygen, nitrogen, silicon or sulphur atoms or an SO_2 group, and it being possible for the chain to be substituted with one or more hydroxyl or amino radicals; an onium

radical Z, the radical R_1 not containing a peroxide bond, or diazo, nitro or nitroso radicals,

R_2 represents an onium radical Z or a radical $-X-C=NR_8-NR_9R_{10}$ in which X represents an oxygen atom or a radical $-NR_{11}$ and R_8, R_9, R_{10} and R_{11} represent a hydrogen atom, a C_1-C_4 alkyl radical or a C_1-C_4 hydroxyalkyl radical,

R_3 represents a hydrogen atom or a hydroxyl radical.

41. (Currently amended) The composition of claim 40, wherein the dye is ~~a monocationic monoazo dye of formula (VIc)~~ selected from the group consisting of:

1,3-dimethyl-2-[4-(pyrrolidin-1-yl)phenylazo]benzimidazol-1-ium,

1,3-dimethyl-2-[4-(3-hydroxypyrrolidin-1-yl)phenylazo]benzimidazol-1-ium,

1,3-dimethyl-2-[4-(2-carboxypyrrolidin-1-yl)phenylazo]benzimidazol-1-ium,

1,3-dimethyl-2-[4-(3-aminopyrrolidin-1-yl)phenylazo]benzimidazol-1-ium,

1,3-dimethyl-2-[4-(2-carboxy-3-hydroxypyrrolidin-1-yl)phenylazo]benzimidazol-1-ium,

1,3-dimethyl-2-[4-(2-carboxamidopyrrolidin-1-yl)phenylazo]benzimidazol-1-ium,

1,3-dimethyl-2-[4-(2-hydroxymethylpyrrolidin-1-yl)phenylazo]benzimidazol-1-ium,

1,3-dimethyl-2-[4-(2-carboxy-4-hydroxypyrrolidin-1-yl)phenylazo]benzimidazol-1-ium,

1,3-dimethyl-2-[4-(piperidin-1-yl)phenylazo]benzimidazol-1-ium,

1,3-dimethyl-2-[4-(3-hydroxypiperidin-1-yl)phenylazo]benzimidazol-1-ium,

1,3-dimethyl-2-[4-(3-hydroxymethylpiperidin-1-yl)phenylazo]benzimidazol-1-ium,

1,3-dimethyl-2-[4-(3-carboxypiperidin-1-yl)phenylazo]benzimidazol-1-ium,

1,3-dimethyl-2-[4-(2-carboxypiperidin-1-yl)phenylazo]benzimidazol-1-ium,

1,3-dimethyl-2-[4-(piperazin-1-yl)phenylazo]benzimidazol-1-ium,

1,3-dimethyl-2-[4-(homopiperazin-1-yl)phenylazo]benzimidazol-1-ium,

5-amino-1,3-dimethyl-2-[4-(pyrrolidin-1-yl)phenylazo]benzimidazol-1-ium,

5-amino-1,3-dimethyl-2-[4-(3-hydroxypyrrolidin-1-yl)phenylazo]benzimidazol-1-ium,

5-amino-1,3-dimethyl-2-[4-(2-carboxypyrrolidin-1-yl)phenylazo]benzimidazol-1-ium,

5-amino-1,3-dimethyl-2-[4-(3-aminopyrrolidin-1-yl)phenylazo]benzimidazol-1-ium,

5-amino-1,3-dimethyl-2-[4-(2-carboxy-3-hydroxypyrrolidin-1-yl)phenylazo]benzimidazol-1-ium,

5-amino-1,3-dimethyl-2-[4-(2-carboxamidopyrrolidin-1-yl)phenylazo]benzimidazol-1-ium,

5-amino-1,3-dimethyl-2-[4-(2-hydroxymethylpyrrolidin-1-yl)phenylazo]benzimidazol-1-ium,

5-amino-1,3-dimethyl-2-[4-(2-carboxy-4-hydroxypyrrolidin-1-yl)phenylazo]benzimidazol-1-ium,

5-amino-1,3-dimethyl-2-[4-(piperidin-1-yl)phenylazo]benzimidazol-1-ium,

5-amino-1,3-dimethyl-2-[4-(3-hydroxypiperidin-1-yl)phenylazo]benzimidazol-1-ium,

5-amino-1,3-dimethyl-2-[4-(3-hydroxymethylpiperidin-1-yl)phenylazo]benzimidazol-1-ium,

5-amino-1,3-dimethyl-2-[4-(3-carboxypiperidin-1-yl)phenylazo]benzimidazol-1-ium,

5-amino-1,3-dimethyl-2-[4-(2-carboxypiperidin-1-yl)phenylazo]benzimidazol-1-ium,

5-amino-1,3-dimethyl-2-[4-(piperazin-1-yl)phenylazo]benzimidazol-1-ium,

5-amino-1,3-dimethyl-2-[4-(homopiperazin-1-yl)phenylazo]benzimidazol-1-ium,

5-dimethylamino-1,3-dimethyl-2-[4-(pyrrolidin-1-yl)-phenylazo]benzimidazol-1-ium,

5-dimethylamino-1,3-dimethyl-2-[4-(3-hydroxypyrrolidin-1-yl)phenylazo]benzimidazol-1-ium,

5-dimethylamino-1,3-dimethyl-2-[4-(2-carboxypyrrolidin-1-yl)phenylazo]benzimidazol-1-ium,

5-dimethylamino-1,3-dimethyl-2-[4-(3-aminopyrrolidin-1-yl)phenylazo]benzimidazol-1-ium,

5-dimethylamino-1,3-dimethyl-2-[4-(2-carboxy-3-hydroxypyrrolidin-1-yl)phenylazo]benzimidazol-1-ium,

5-dimethylamino-1,3-dimethyl-2-[4-(2-carboxamidopyrrolidin-1-yl)phenylazo]benzimidazol-1-ium,

5-dimethylamino-1,3-dimethyl-2-[4-(2-hydroxymethylpyrrolidin-1-yl)phenylazo]benzimidazol-1-ium,

5-dimethylamino-1,3-dimethyl-2-[4-(2-carboxy-4-hydroxypyrrolidin-1-yl)phenylazo]benzimidazol-1-ium,

5-dimethylamino-1,3-dimethyl-2-[4-(piperidin-1-yl)phenylazo]benzimidazol-1-ium,

5-dimethylamino-1,3-dimethyl-2-[4-(3-hydroxypiperidin-1-yl)phenylazo]benzimidazol-1-ium,

5-dimethylamino-1,3-dimethyl-2-[4-(3-hydroxymethylpiperidin-1-yl)phenylazo]benzimidazol-1-ium,

5-dimethylamino-1,3-dimethyl-2-[4-(3-carboxypiperidin-1-yl)phenylazo]benzimidazol-1-ium,

5-dimethylamino-1,3-dimethyl-2-[4-(2-carboxypiperidin-1-yl)phenylazo]benzimidazol-1-ium,

5-dimethylamino-1,3-dimethyl-2-[4-(piperazin-1-yl)phenylazo]benzimidazol-1-ium,

5-dimethylamino-1,3-dimethyl-2-[4-(homopiperazin-1-yl)phenylazo]benzimidazol-1-ium.

42-64. (Canceled)

65. (New) The composition of claim 30, wherein the cationic tertiary para-phenylenediamine is such that n is equal to 0.

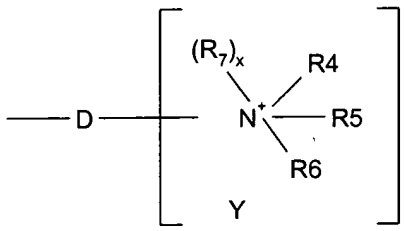
66. (New) The composition of claim 30, wherein the cationic tertiary para-phenylenediamine is such that n is equal to 1 and R_1 is chosen from the group consisting of a halogen atom; a saturated or unsaturated, aliphatic or alicylic, C_1-C_6 hydrocarbon chain; it being possible for one

or more carbon atoms to be replaced by an oxygen, nitrogen, silicon or sulphur atom, or by an SO_2 group, the radical R_1 not containing a peroxide bond, or diazo, nitro or nitroso radicals.

67. (New) The composition of claim 30, wherein the cationic tertiary para-phenylenediamine is such that R_1 is chosen from chlorine, bromine, C_1-C_4 alkyl, C_1-C_4 hydroxyalkyl, C_1-C_4 aminoalkyl, C_1-C_4 alkoxy or C_1-C_4 hydroxyalkoxy radicals.

68. (New) The composition of claim 67, wherein the cationic tertiary para-phenylenediamine is such that R_1 is chosen from a methyl, hydroxymethyl, 2-hydroxyethyl, 1,2-dihydroxyethyl, methoxy, isopropyloxy or 2-hydroxyethoxy radical.

69. (New) The composition of claim 30, wherein the cationic tertiary para-phenylenediamine is such that R_2 represents the onium radical Z corresponding to formula (II)



(II)

in which

D is a single bond of a linear or branched C_1-C_{14} alkylene chain which may contain one or more heteroatoms chosen from oxygen, sulphur or nitrogen, and which may be substituted with one or more hydroxyl, C_1-C_6 alkoxy or amino radicals and which may carry one or more ketone functional groups;

R_4, R_5 and R_6, taken separately, represent a C_1-C_{15} alkyl radical; a C_1-C_6 monohydroxyalkyl radical; a C_2-C_6 polyhydroxyalkyl radical; a (C_1-C_6)alkoxy(C_1-C_6)alkyl radical; an aryl radical; a benzyl radical; a C_1-C_6 amidoalkyl radical; a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical; a C_1-C_6 aminoalkyl radical; a C_1-C_6 aminoalkyl radical in which the amine is mono- or di-substituted with a C_1-C_4 alkyl, (C_1-C_6)alkylcarbonyl, amido or (C_1-C_6)alkylsulphonyl radical; or

R_4, R_5 and R_6 together, in pairs, form, with the nitrogen atom to which they are attached, a 4-, 5-, 6- or 7-membered saturated carbon ring which may contain one or more heteroatoms, it being possible for the cationic ring to be substituted with a halogen atom, a hydroxyl radical, a C_1-C_6 alkyl radical, a C_1-C_6 monohydroxyalkyl radical, a C_2-C_6 polyhydroxy-alkyl radical, a C_1-C_6 alkoxy radical, a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical, an amido radical, a carboxyl radical, a (C_1-C_6)alkylcarbonyl radical, a thio (-SH) radical, a C_1-C_6 thioalkyl (-R-SH) radical, a (C_1-C_6)alkylthio radical, an amino radical, an amino radical which is mono- or di-substituted with a (C_1-C_6)alkyl, (C_1-C_6)alkylcarbonyl, amido or (C_1-C_6)alkylsulphonyl radical;

R_7 represents a C_1-C_6 alkyl radical; a C_1-C_6 monohydroxyalkyl radical; a C_2-C_6 polyhydroxyalkyl radical; an aryl radical; a benzyl radical; a C_1-C_6 aminoalkyl radical; a C_1-C_6 aminoalkyl radical whose amine is mono- or di-substituted with a (C_1-C_6)alkyl, (C_1-C_6)alkylcarbonyl, amido or (C_1-C_6)alkylsulphonyl radical; a C_1-C_6 carboxyalkyl radical; a C_1-C_6 carbamylalkyl radical; a C_1-C_6 trifluroalkyl radical; a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical; a C_1-C_6 sulphonamidoalkyl radical; a (C_1-C_6)alkylcarboxy(C_1-C_6)alkyl radical; a (C_1-C_6)alkylsulphinyl(C_1-C_6)alkyl radical; a (C_1-C_6)alkylsulphonyl(C_1-C_6)alkyl radical; a (C_1-C_6)alkylcarbonyl(C_1-C_6)alkyl radical; an N-(C_1-C_6)alkylcarbamyl(C_1-C_6)alkyl radical; an N-(C_1-C_6)alkylsulphonamido(C_1-C_6)alkyl radical;

x is 0 or 1,

when x = 0, then the linking arm is attached to the nitrogen atom carrying the radicals R_4 to R_6;

when x = 1, then two of the radicals R_4 to R_6 form, together with the nitrogen atom to which they are attached, a 4-, 5-, 6- or 7-membered saturated ring and D is linked to the carbon atom of the saturated ring;

Y is a counter-ion.

70. (New) The composition of claim 69, wherein the cationic tertiary para-phenylenediamine is such that R_2 corresponds to formula II in which x is equal to 0 and R_4, R_5 and R_6 separately are

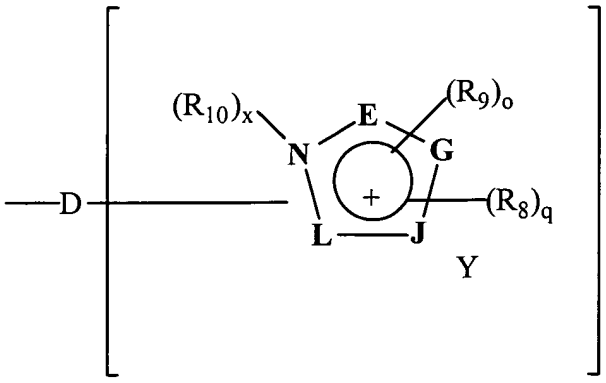
preferably chosen from a C_1-C_6 alkyl radical, a C_1-C_4 monohydroxyalkyl radical, a C_2-C_4 polyhydroxyalkyl radical, a (C_1-C_6)alkoxy(C_1-C_4)alkyl radical, a C_1-C_6 amidoalkyl radical, a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical, or R_4 with R_5 form together an azetidine ring, a pyrrolidine, piperidine, piperazine or morpholine ring, R_6 being chosen in this case from a C_1-C_6 alkyl radical; a C_1-C_6 monohydroxyalkyl radical, a C_2-C_6 polyhydroxyalkyl radical; a C_1-C_6 aminoalkyl radical, an aminoalkyl radical which is mono- or di-substituted with a (C_1-C_6)alkyl radical, a (C_1-C_6)alkylcarbonyl, amido or (C_1-C_6)alkylsulphonyl radical; a C_1-C_6 carbamylalkyl radical; a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical; a (C_1-C_6)alkyl carboxy(C_1-C_6)alkyl radical; a (C_1-C_6)alkylcarbonyl(C_1-C_6)alkyl radical; an N-(C_1-C_6)alkylcarbamyl(C_1-C_6)alkyl radical.

71. (New) The composition of claim 69, wherein the cationic tertiary para-phenylenediamine is such that R_2 corresponds to formula II in which x is equal to 1 and R_7 is chosen from a C_1-C_6 alkyl radical; a C_1-C_6 monohydroxyalkyl radical; a C_2-C_6 polyhydroxy-alkyl radical; a C_1-C_6 aminoalkyl radical, a C_1-C_6 aminoalkyl radical whose amine is mono- or di-substited with a (C_1-C_6)alkyl, (C_1-C_6)alkylcarbonyl, amido or a (C_1-C_6)alkylsulphonyl radical; a C_1-C_6 carbamylalkyl radical, a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical; a (C_1-C_6)alkylcarboxy(C_1-C_6)alkyl radical; a (C_1-C_6)alkylcarbonyl(C_1-C_6)alkyl radical; an N-(C_1-C_6)alkylcarbamyl(C_1-C_6)alkyl radical; R_4 with R_5 together form an azetidine, pyrrolidine, piperidine, piperazine or morpholine ring, R_6 being chosen in this case from a C_1-C_6 alkyl radical; a C_1-C_6 monohydroxyalkyl radical; a C_2-C_6 polyhydroxyl alkyl radical; a C_1-C_6 aminoalkyl radical; a C_1-C_6 aminoalkyl radical whose amine is mono- or di-substituted with a (C_1-C_6)alkyl, (C_1-C_6)alkylcarbonyl, amido or (C_1-C_6)alkylsulphonyl radical; a C_1-C_6 carbamylalkyl radical; a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical; a (C_1-C_6)alkylcarboxy(C_1-C_6)alkyl radical; a (C_1-C_6)alkylcarbonyl(C_1-C_6)alkyl radical; an N-(C_1-C_6)alkylcarbamyl(C_1-C_6)alkyl radical.

72. (New) The composition of claim 69, wherein the cationic tertiary para-phenylenediamine is such that D is a single bond or an alkylene chain which may be substituted.

73. (New) The composition of claim 69, wherein the cationic tertiary para-phenylenediamine is such that R_2 is a trialkylammonium radical.

74. (New) The composition of claim 30, wherein the cationic tertiary para-phenylenediamine is such that R_2 represents the onium radical Z corresponding to formula III



(III)

in which

D is a single bond or a linear or branched C_1-C_{14} alkylene chain which may contain one or more heteroatoms chosen from oxygen, sulphur or nitrogen, and which may be substituted with one or more hydroxyl, C_1-C_6 alkoxy or amino radicals, and which may carry one or more ketone functional groups;

the vertices E, G, J, L, which are identical or different, represent a carbon, oxygen, sulphur or nitrogen atom to form a pyrrole, pyrazole, imidazole, triazole, oxazole, isooxazole, thiazole, isothiazole ring,

q is an integer between 0 and 4 inclusive;

is an integer between 0 and 3 inclusive;

q+o is an integer between 0 and 4;

the radicals R_8, which are identical or different, represent a halogen atom, a hydroxyl radical, a C_1-C_6 alkyl radical, a C_1-C_6 monohydroxyalkyl radical, a C_2-C_6 polyhydroxyalkyl radical, a C_1-C_6 alkoxy radical, a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical, an amido radical, a carboxyl radical, a C_1-C_6 alkylcarbonyl radical, a thio radical, a C_1-C_6 thioalkyl radical, a (C_1-C_6)alkylthio radical, an amino radical, an amino radical which is mono- or di-substituted with a (C_1-

C_6)alkyl, (C_1-C_6)alkylcarbonyl, amido or (C_1-C_6)alkylsulphonyl radical; a C_1-C_6 monohydroxyalkyl radical or a C_2-C_6 polyhydroxyalkyl radical; it being understood that the radicals R_8 are carried by a carbon atom,

the radicals R_9, which are identical or different, represent a C_1-C_6 alkyl radical, a C_1-C_6 monohydroxyalkyl radical, a C_2-C_6 polyhydroxyalkyl radical, a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical, a (C_1-C_6)alkoxy(C_1-C_6)alkyl radical, a C_1-C_6 carbamylalkyl radical, a (C_1-C_6)alkylcarboxy(C_1-C_6)alkyl radical, a benzyl radical; it being understood that the radicals R_9 are carried by a nitrogen,

R_{10} represents a C_1-C_6 alkyl radical; a C_1-C_6 monohydroxyalkyl radical; a C_2-C_6 polyhydroxyalkyl radical; an aryl radical; a benzyl radical; a C_1-C_6 aminoalkyl radical, a C_1-C_6 aminoalkyl radical whose amine is substituted with a (C_1-C_6)alkyl, (C_1-C_6)alkylcarbonyl, amido or (C_1-C_6)alkylsulphonyl radical; a C_1-C_6 carboxyalkyl radical; a C_1-C_6 carbamylalkyl radical; a C_1-C_6 trifluoroalkyl radical; a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical; a C_1-C_6 sulphonamidoalkyl radical; a (C_1-C_6)alkylcarboxy(C_1-C_6)alkyl radical; a (C_1-C_6)alkylsulphonyl(C_1-C_6)alkyl radical; a (C_1-C_6)alkylsulphonyl(C_1-C_6)alkyl radical; a (C_1-C_6)alkylcarbonyl(C_1-C_6)alkyl radical; an N-(C_1-C_6)alkylcarbamyl(C_1-C_6)alkyl radical; an N-(C_1-C_6)alkylsulphonamido(C_1-C_6)alkyl radical;

x is 0 or 1

when x = 0, the linking arm D is attached to the nitrogen atom,

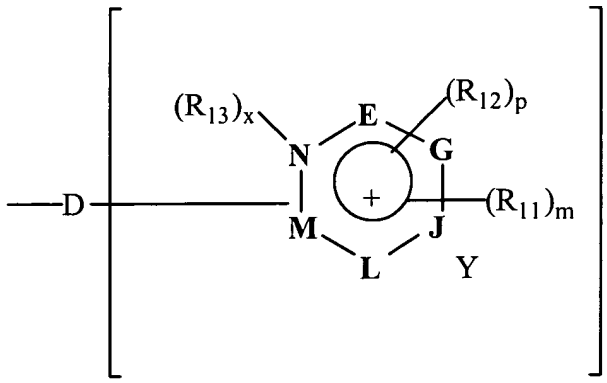
when x = 1, the linking arm D is attached to one of the vertices E, G, J or L,

Y is a counter-ion.

75. (New) The composition of claim 74, wherein the cationic tertiary para-phenylenediamine is such that the vertices E, G, J and L form an imidazole ring.

76. (New) The composition of claim 74, wherein the cationic tertiary para-phenylenediamine is such that x is equal to 0, D is a single bond or an alkylene chain which may be substituted.

77. (New) The composition of claim 30, wherein the cationic tertiary para-phenylenediamine is such that R_2 represents an onium radical Z corresponding to formula IV



(IV)

in which:

D is a single bond or a linear or branched C_1-C_{14} alkylene chain which may contain one or more heteroatoms chosen from an oxygen, sulphur or nitrogen atom, and which may be substituted with one or more hydroxyl, C_1-C_6 alkoxy or amino radicals, and which may carry one or more ketone functional groups;

the vertices E, G, J, L and M, which are identical or different, represent a carbon, oxygen, sulphur or nitrogen atom to form a ring chosen from the pyridine, pyrimidine, pyrazine, triazine and pyridazine rings;

p is an integer between 0 and 3 inclusive;

m is an integer between 0 and 5 inclusive;

p+m is an integer between 0 and 5;

the radicals R_{11}, which are identical or different, represent a halogen atom, a hydroxyl radical, a C_1-C_6 alkyl radical, a C_1-C_6 monohydroxyalkyl radical, a C_2-C_6 polyhydroxyalkyl radical, a C_1-C_6 alkoxy radical, a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical, an amido radical, a carboxyl radical, a C_1-C_6 alkylcarbonyl radical, a thio radical, a C_1-C_6 thioalkyl radical, a (C_1-C_6)alkylthio radical, an amino radical, an amino radical which is substituted with a (C_1-C_6)alkyl, (C_1-C_6)alkylcarbonyl, amido or (C_1-C_6)alkylsulphonyl radical; a C_1-C_6

monohydroxyalkyl radical or a C_2-C_6 polyhydroxyalkyl radical; it being understood that the radicals R_{11} are carried by a carbon atom,

the radicals R_{12}, which are identical or different, represent a C_1-C_6 alkyl radical, a C_1-C_6 monohydroxyalkyl radical, a C_2-C_6 polyhydroxyalkyl radical, a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical, a (C_1-C_6)alkoxy(C_1-C_6)alkyl radical, a C_1-C_6 carbamylalkyl radical, a (C_1-C_6)alkylcarboxy(C_1-C_6)alkyl radical, a benzyl radical; it being understood that the radicals R_{12} are carried by a nitrogen,

R_{13} represents a C_1-C_6 alkyl radical; a C_1-C_6 monohydroxyalkyl radical; a C_2-C_6 polyhydroxyalkyl radical; an aryl radical; a benzyl radical; a C_1-C_6 aminoalkyl radical, a C_1-C_6 aminoalkyl radical whose amine is mono- or di-substituted with a (C_1-C_6)alkyl, (C_1-C_6)alkylcarbonyl, amido or (C_1-C_6)alkylsulphonyl radical; a C_1-C_6 carboxyalkyl radical; a C_1-C_6 carbamylalkyl radical; a C_1-C_6 trifluoroalkyl radical; a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical; a C_1-C_6 sulphonamidoalkyl radical; a (C_1-C_6)alkylcarboxy(C_1-C_6)alkyl radical; a (C_1-C_6)alkylsulphonyl(C_1-C_6)alkyl radical; a (C_1-C_6)alkylsulphonyl(C_1-C_6)alkyl radical; a (C_1-C_6)alkylcarbonyl(C_1-C_6)alkyl radical; an N-(C_1-C_6)alkylcarbamyl(C_1-C_6)alkyl radical; an N-(C_1-C_6)alkylsulphonamido(C_1-C_6)alkyl radical;

x is 0 or 1

when x = 0, the linking arm D is attached to the nitrogen atom,

when x = 1, the linking arm D is attached to one of the vertices E, G, J, L or M,

Y is a counter-ion.

78. (New) The composition of claim 77, wherein the vertices E, G, J, L and M form, with the nitrogen of the ring, a ring chosen from pyridine and pyrimidine rings.

79. (New) The composition of claim 77, wherein the cationic tertiary para-phenylenediamine is such that x is equal to 0 and R_{11} is chosen from a hydroxyl radical, a C_1-C_6 alkyl radical, a C_1-C_6 monohydroxyalkyl radical, a C_2-C_6 polyhydroxyalkyl radical, a C_1-C_6 alkoxy radical, a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical, an amido radical, a C_1-C_6 alkylcarbonyl radical, an amino radical, an amino radical which is mono- or di-substituted with a (C_1-C_6)alkyl, a (C_1-C_6)alkylcarbonyl, amido or (C_1-C_6)alkylsulphonyl radical; a C_1-C_6 monohydroxyalkyl radical or

a C_2-C_6 polyhydroxyalkyl radical and R_{12} is chosen from a C_1-C_6 alkyl radical, a C_1-C_6 monohydroxyalkyl radical, a C_2-C_6 polyhydroxyalkyl radical, a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical, a (C_1-C_6)alkoxy(C_1-C_6)alkyl radical, a C_1-C_6 carbamylalkyl radical.

80. (New) The composition of claim 77, wherein the cationic tertiary para-phenylenediamine is such that x is equal to 1 and R_{13} is chosen from a C_1-C_6 alkyl radical; a C_1-C_6 monohydroxyalkyl radical; a C_2-C_6 polyhydroxyalkyl radical; a C_1-C_6 aminoalkyl radical, a C_1-C_6 aminoalkyl radical whose amine is mono- or di-substituted with a (C_1-C_6)alkyl radical, a (C_1-C_6)alkylcarbonyl radical, an amido radical, a (C_1-C_6)alkylsulphonyl radical; a C_1-C_6 carbamylalkyl radical; a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical; a (C_1-C_6)alkylcarbonyl(C_1-C_6)alkyl radical; an N-(C_1-C_6)alkylcarbamyl(C_1-C_6)alkyl radical; R_{11} is chosen from a hydroxyl radical, a C_1-C_6 alkyl radical, a C_1-C_6 monohydroxyalkyl radical, a C_2-C_6 polyhydroxyalkyl radical, a C_1-C_6 alkoxy radical, a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical, an amido radical, a C_1-C_6 alkylcarbonyl radical, an amino radical, an amino radical which is mono- or di- substituted with a (C_1-C_6)alkyl, (C_1-C_6)alkylcarbonyl, amido or (C_1-C_6)alkylsulphonyl radical; and R_{12} is chosen from a C_1-C_6 alkyl radical, a C_1-C_6 monohydroxyalkyl radical, a C_2-C_6 polyhydroxyalkyl radical, a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical, a (C_1-C_6)alkoxy(C_1-C_6)alkyl radical, a C_1-C_6 carbamylalkyl radical.

81. (New) The composition of claim 77, wherein the cationic tertiary para-phenylenediamine is such that R_{11}, R_{12} and R_{13} are alkyl radicals which may be substituted.

82. (New) The composition of claim 30, wherein the cationic tertiary para-phenylenediamine is such that the radical R_2 is the radical of formula -XP(O)(O-) $OCH_2CH_2N^+(CH_3)_3$ where X represents an oxygen atom or a radical $-NR_{14}$, R_{14} representing a hydrogen, a C_1-C_4 alkyl radical or a hydroxyalkyl radical.

83. (New) The composition of claim 30, wherein the cationic tertiary para-phenylenediamine is such that the radical R_2 is a guanidine radical of formula $-X-C=NR_8-NR_9R_{10}$, X represents an oxygen atom or a radical $-NR_{11}$, R_8, R_9, R_{10} and R_{11} representing a hydrogen, a C_1-C_4 alkyl radical or a hydroxyalkyl radical.

84. (New) The composition of claim 30, wherein the cationic tertiary para-phenylene is chosen from the group consisting of:

[1-(4-Aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride,

[1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyltetradecylammonium bromide

N'-[1-(4-Aminophenyl)pyrrolidin-3-yl]-N,N-dimethyl-guanidinium chloride

N-[1-(4-Aminophenyl)pyrrolidin-3-yl]guanidinium chloride

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride

[1-(4-Aminophenyl)pyrrolidin-3-yl]-(2-hydroxyethyl)dimethylammonium chloride

[1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyl-(3-trimethylsilanylpropyl)ammonium chloride

[1-(4-Aminophenyl)pyrrolidin-3-yl]-(trimethylammonium-hexyl)dimethylammonium dichloride

[1-(4-Aminophenyl)pyrrolidin-3-yl]oxophosphorylcholine

{2-[1-(4-Aminophenyl)pyrrolidin-3-yloxy]ethyl}trimethylammonium chloride

1-{2-[1-(4-Aminophenyl)pyrrolidin-3-yloxy]ethyl}-1-methylpyrrolidinium chloride

3-{3-[1-(4-Aminophenyl)pyrrolidin-3-yloxy]propyl}-1-methyl-3H-imidazol-1-ium chloride

1-{2-[1-(4-Aminophenyl)pyrrolidin-3-yloxy]ethyl}-1-methylpiperidinium chloride

3-{3-[1-(5-trimethylsilanylethyl-4-Amino-3- trimethylsilanylethylphenyl)pyrrolidin-3-yloxy]propyl}-1-methyl-3H-imidazol-1-um chloride

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]trimethyammonium chloride

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]dimethyltetradecylammonium chloride

N'-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-N,N-dimethylguanidinium chloride

N-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]guanidinium chloride

3-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-(2-hydroxyethyl)dimethylammonium chloride

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]dimethyl-(3-trimethylsilanylpropylammonium chloride

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-(trimethylammoniumhexyl-dimethylammonium dichloride

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]oxophosphorylcholine

{2-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yloxy]ethyl}trimethylammonium chloride

1-{2-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yloxy]ethyl}-1-methylpyrrolidinium chloride

3-{3-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yloxy]-propyl}1-methyl-3H-imidazol-1-um chloride

1-{2-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yloxy]ethyl}-1-methylpiperidinium chloride

[1-(4-Amino-3-trimethylsilanylethylphenyl)pyrrolidin-3-yl]trimethylammonium chloride

3-[1-(4-Amino-3-trimethylsilanylethylphenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride

3-{3-[1-(4-Amino-3-trimethylsilanylethylphenyl)pyrrolidin-3-yloxy]propyl}-1-methyl-3H-imidazol-1-um chloride

[1-(5-trimethylsilanylethyl-4-Amino-3-trimethylsilanylethylphenyl)pyrrolidin-3-yl]trimethylammonium chloride

3-[1-(5-trimethylsilanylethyl-4-Amino-3-trimethylsilanylethylphenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride

1'-(4-Aminophenyl)-1-methyl-[1,3']bipyrrolidinyl-1-ium chloride

1'-(4-Amino-3-methylphenyl)-1-methyl-[1,3']bipyrrolidinyl-1-ium chloride

3-{[1-(4-Aminophenyl)pyrrolidin-3-ylcarbamoyl]methyl}-1-methyl-3H-imidazol-1-ium chloride

3-{[1-(4-Amino-3-methylphenyl)pyrrolidin-3-ylcarbamoyl]methyl}-1-methyl-3H-imidazol-1-ium chloride

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-(3-trimethylsilanylpropyl)-3H-imidazol-1-ium chloride

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-(3-trimethylsilanylpropyl)-3H-imidazol-1-ium chloride

[1-(4-aminophenyl)pyrrolidin-3-yl]ethyldimethylammonium chloride

[1-(4-aminophenyl)pyrrolidin-3-yl]ethyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]propyldimethylammonium iodide,

[1-(4-aminophenyl)pyrrolidin-3-yl]propyldimethylammonium bromide

[1-(4-aminophenyl)pyrrolidin-3-yl]propyldimethylammonium methosulphate

[1-(4-aminophenyl)pyrrolidin-3-yl]butyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]pentyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]hexyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]heptyldimethylammonium iodide

[1-(4-Aminophenyl)pyrrolidin-3-yl]octyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]decyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]hexadecyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]hydroxyethyldimethylammonium chloride

[1-(4-aminophenyl)pyrrolidin-3-yl]hydroxyethyldimethylammonium iodide.

85. (New) The composition of claim 30, wherein the cationic tertiary para-phenylene is chosen from the group consisting of:

[1-(4-Aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride

[1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyltetradecylammonium bromide

N'-[1-(4-Aminophenyl)pyrrolidin-3-yl]-N,N-dimethylguanidinium chloride

N-[1-(4-Aminophenyl)pyrrolidin-3-yl]guanidinium chloride

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride

[1-(4-Aminophenyl)pyrrolidin-3-yl](2-hydroxyethyl)dimethylammonium chloride

[1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyl-(3-trimethylsilanylpropyl)ammonium chloride

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]trimethylammonium chloride

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]dimethyltetradecylammonium chloride

N'-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-N,N-dimethylguanidinium chloride

N-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]guanidinium chloride

3-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-(2-hydroxyethyl)dimethylammonium chloride

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]dimethyl-(3-trimethylsilanylpropylammonium chloride

1'-(4-Aminophenyl)-1-methyl-[1,3']bipyrrolidinyl-1-ium chloride

1'-(4-Amino-3-methylphenyl)-1-methyl-[1,3']bipyrrolidinyl-1-ium chloride

3-{[1-(4-Aminophenyl)pyrrolidin-3-ylcarbamoyl]methyl}-1-methyl-3H-imidazol-1-ium chloride

3-{[1-(4-Amino-3-methylphenyl)pyrrolidin-3-ylcarbamoyl]methyl}-1-methyl-3H-imidazol-1-ium chloride

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-(3-trimethylsilanylpropyl)-3H-imidazol-1-ium chloride

3-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-1-(3-trimethylsilanyl-propyl)-3H-imidazol-1-ium chloride

[1-(4-aminophenyl)pyrrolidin-3-yl]ethyldimethylammonium chloride

[1-(4-aminophenyl)pyrrolidin-3-yl]ethyldimethylammonium iodide

[1-(4-Aminophenyl)pyrrolidin-3-yl]propyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]propyldimethylammonium bromide

[1-(4-aminophenyl)pyrrolidin-3-yl]propyldimethylammonium methosulphate

[1-(4-aminophenyl)pyrrolidin-3-yl]butyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]pentyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]hexyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]heptyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]octyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]decyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]hexadecyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]hydroxyethyldimethylammonium chloride

[1-(4-aminophenyl)pyrrolidin-3-yl]hydroxyethyldimethylammonium iodide.

86. (New) The composition of claim 30, wherein the cationic tertiary para-phenylene is chosen from the group consisting of:

[1-(4-Aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride

[1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyltetradecylammonium bromide

N'-[1-(4-Aminophenyl)pyrrolidin-3-yl]-N,N-dimethylguanidinium chloride

N-[1-(4-Aminophenyl)pyrrolidin-3-yl]guanidinium chloride

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride

[1-(4-Aminophenyl)pyrrolidin-3-yl]-(2-hydroxyethyl)dimethylammonium chloride

[1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyl-(3-trimethylsilanylpropyl)ammonium chloride

[1-(4-Aminophenyl)pyrrolidin-3-yl]-(trimethylammoniumhexyl)dimethylammonium dichloride

1'-(4-Aminophenyl)-1-methyl-[1,3']bipyrrolidinyl-1-ium chloride

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-(3-trimethylsilanylpropyl)-3H-imidazol-1-ium chloride

3-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-1-(3-trimethylsilanylpropyl)-3H-imidazol-1-ium chloride

[1-(4-aminophenyl)pyrrolidin-3-yl]ethyldimethylammonium chloride

[1-(4-aminophenyl)pyrrolidin-3-yl]ethyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]propyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]propyldimethylammonium bromide

[1-(4-aminophenyl)pyrrolidin-3-yl]propyldimethylammonium methosulphate

[1-(4-aminophenyl)pyrrolidin-3-yl]butyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]pentyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]hexyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]heptyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]octyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]decyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]hexadecyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]hydroxyethyldimethylammonium chloride

[1-(4-aminophenyl)pyrrolidin-3-yl]hydroxyethyldimethylammonium iodide.

87. (New) The composition of claim 30, wherein the cationic tertiary para-phenylene is chosen from the group consisting of:

[1-(4-Aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride

[1-(4-Aminophenyl)pyrrolidin-3-yl]-(2-hydroxyethyl)dimethylammonium chloride

1'-(4-Aminophenyl)-1-methyl-[1,3']bipyrrolidinyl-1-ium chloride.

88. (New) The composition of claim 30, wherein the cationic tertiary para-phenylene is chosen from the group consisting of:

[1-(4-Aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride, and

[1-(4-Aminophenyl)pyrrolidin-3-yl]-(2-hydroxyethyl)dimethylammonium chloride.

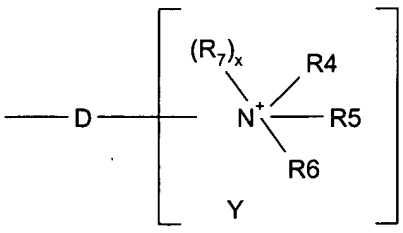
89. (New) The composition of claim 31, wherein the cationic tertiary para-phenylenediamine is such that n is equal to 0.

90. (New) The composition of claim 31, wherein the cationic tertiary para-phenylenediamine is such that n is equal to 1 and R_1 is chosen from the group consisting of a halogen atom; a saturated or unsaturated, aliphatic or alicylic, C_1-C_6 hydrocarbon chain; it being possible for one or more carbon atoms to be replaced by an oxygen, nitrogen, silicon or sulphur atom, or by an SO_2 group, the radical R_1 not containing a peroxide bond, or diazo, nitro or nitroso radicals.

91. (New) The composition of claim 31, wherein the cationic tertiary para-phenylenediamine is such that R_1 is chosen from chlorine, bromine, C_1-C_4 alkyl, C_1-C_4 hydroxyalkyl, C_1-C_4 aminoalkyl, C_1-C_4 alkoxy or C_1-C_4 hydroxyalkoxy radicals.

92. (New) The composition of claim 91, wherein the cationic tertiary para-phenylenediamine is such that R_1 is chosen from a methyl, hydroxymethyl, 2-hydroxyethyl, 1,2-dihydroxyethyl, methoxy, isopropyloxy or 2-hydroxyethoxy radical.

93. (New) The composition of claim 31, wherein the cationic tertiary para-phenylenediamine is such that R_2 represents the onium radical Z corresponding to formula (II)



(II)

in which

D is a single bond of a linear or branched C_1-C_{14} alkylene chain which may contain one or more heteroatoms chosen from oxygen, sulphur or nitrogen, and which may be substituted with one or more hydroxyl, C_1-C_6 alkoxy or amino radicals and which may carry one or more ketone functional groups;

R_4, R_5 and R_6, taken separately, represent a C_1-C_{15} alkyl radical; a C_1-C_6 monohydroxyalkyl radical; a C_2-C_6 polyhydroxyalkyl radical; a (C_1-C_6)alkoxy(C_1-C_6)alkyl radical; an aryl radical; a benzyl radical; a C_1-C_6 amidoalkyl radical; a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical; a C_1-C_6 aminoalkyl radical; a C_1-C_6 aminoalkyl radical in which the amine is mono- or di-substituted with a C_1-C_4 alkyl, (C_1-C_6)alkylcarbonyl, amido or (C_1-C_6)alkylsulphonyl radical; or

R_4, R_5 and R_6 together, in pairs, form, with the nitrogen atom to which they are attached, a 4-, 5-, 6- or 7-membered saturated carbon ring which may contain one or more heteroatoms, it being possible for the cationic ring to be substituted with a halogen atom, a hydroxyl radical, a C_1-C_6 alkyl radical, a C_1-C_6 monohydroxyalkyl radical, a C_2-C_6 polyhydroxy-alkyl radical, a C_1-C_6 alkoxy radical, a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical, an amido radical, a carboxyl radical, a (C_1-C_6)alkylcarbonyl radical, a thio (-SH) radical, a C_1-C_6 thioalkyl (-R-SH) radical, a (C_1-C_6)alkylthio radical, an amino radical, an amino radical which is mono- or di-substituted with a (C_1-C_6)alkyl, (C_1-C_6)alkylcarbonyl, amido or (C_1-C_6)alkylsulphonyl radical;

R_7 represents a C_1-C_6 alkyl radical; a C_1-C_6 monohydroxyalkyl radical; a C_2-C_6 polyhydroxyalkyl radical; an aryl radical; a benzyl radical; a C_1-C_6 aminoalkyl radical; a C_1-C_6 aminoalkyl radical whose amine is mono- or di-substituted with a (C_1-C_6)alkyl, (C_1-C_6)alkylcarbonyl, amido or (C_1-C_6)alkylsulphonyl radical; a C_1-C_6 carboxyalkyl radical; a C_1-C_6 carbamylalkyl radical; a C_1-C_6 trifluroalkyl radical; a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical; a C_1-C_6 sulphonamidoalkyl radical; a (C_1-C_6)alkylcarboxy(C_1-C_6)alkyl radical; a (C_1-C_6)alkylsulphinyl(C_1-C_6)alkyl radical; a (C_1-C_6)alkylsulphonyl(C_1-C_6)alkyl radical; a

(C_1-C_6)alkylcarbonyl(C_1-C_6)alkyl radical; an N-(C_1-C_6)alkylcarbamyl(C_1-C_6)alkyl radical; an N-(C_1-C_6)alkylsulphonamido(C_1-C_6)alkyl radical;

x is 0 or 1,

when x = 0, then the linking arm is attached to the nitrogen atom carrying the radicals R_4 to R_6;

when x = 1, then two of the radicals R_4 to R_6 form, together with the nitrogen atom to which they are attached, a 4-, 5-, 6- or 7-membered saturated ring and D is linked to the carbon atom of the saturated ring;

Y is a counter-ion.

94. (New) The composition of claim 93, wherein the cationic tertiary para-phenylenediamine is such that R_2 corresponds to formula II in which x is equal to 0 and R_4, R_5 and R_6 separately are preferably chosen from a C_1-C_6 alkyl radical, a C_1-C_4 monohydroxyalkyl radical, a C_2-C_4 polyhydroxyalkyl radical, a (C_1-C_6)alkoxy(C_1-C_4)alkyl radical, a C_1-C_6 amidoalkyl radical, a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical, or R_4 with R_5 form together an azetidine ring, a pyrrolidine, piperidine, piperazine or morpholine ring, R_6 being chosen in this case from a C_1-C_6 alkyl radical; a C_1-C_6 monohydroxyalkyl radical, a C_2-C_6 polyhydroxyalkyl radical; a C_1-C_6 aminoalkyl radical, an aminoalkyl radical which is mono- or di-substituted with a (C_1-C_6)alkyl radical, a (C_1-C_6)alkylcarbonyl, amido or (C_1-C_6)alkylsulphonyl radical; a C_1-C_6 carbamylalkyl radical; a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical; a (C_1-C_6)alkyl carboxy(C_1-C_6)alkyl radical; a (C_1-C_6)alkylcarbonyl(C_1-C_6)alkyl radical; an N-(C_1-C_6)alkylcarbamyl(C_1-C_6)alkyl radical.

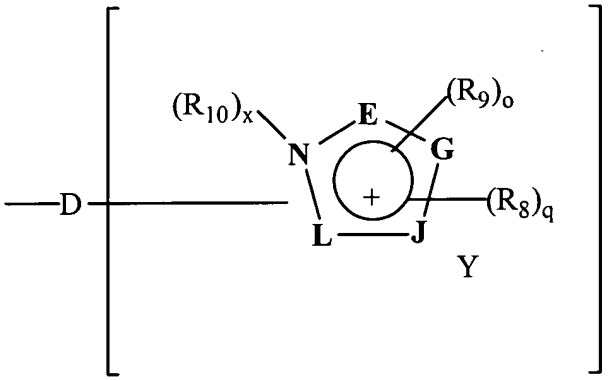
95. (New) The composition of claim 93, wherein the cationic tertiary para-phenylenediamine is such that R_2 corresponds to formula II in which x is equal to 1 and R_7 is chosen from a C_1-C_6 alkyl radical; a C_1-C_6 monohydroxyalkyl radical; a C_2-C_6 polyhydroxy-alkyl radical; a C_1-C_6 aminoalkyl radical, a C_1-C_6 aminoalkyl radical whose amine is mono- or di-substited with a (C_1-C_6)alkyl, (C_1-C_6)alkylcarbonyl, amido or a (C_1-C_6)alkylsulphonyl radical; a C_1-C_6 carbamylalkyl radical, a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical; a (C_1-C_6)alkylcarboxy(C_1-C_6)alkyl radical; a (C_1-C_6)alkylcarbonyl(C_1-C_6)alkyl radical; an N-(C_1-C_6)alkylcarbamyl(C_1-C_6)alkyl radical; R_4 with R_5 together form an azetidine, pyrrolidine, piperidine, piperazine or morpholine ring, R_6 being chosen in this case from a C_1-C_6 alkyl

radical; a C_1-C_6 monohydroxyalkyl radical; a C_2-C_6 polyhydroxyl alkyl radical; a C_1-C_6 aminoalkyl radical; a C_1-C_6 aminoalkyl radical whose amine is mono- or di-substituted with a (C_1-C_6)alkyl, (C_1-C_6)alkylcarbonyl, amido or (C_1-C_6)alkylsulphonyl radical; a C_1-C_6 carbamylalkyl radical; a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical; a (C_1-C_6)alkylcarboxy(C_1-C_6)alkyl radical; a (C_1-C_6)alkylcarbonyl(C_1-C_6)alkyl radical; an N-(C_1-C_6)alkylcarbamyl(C_1-C_6)alkyl radical.

96. (New) The composition of claim 93, wherein the cationic tertiary para-phenylenediamine is such that D is a single bond or an alkylene chain which may be substituted.

97. (New) The composition of claim 93, wherein the cationic tertiary para-phenylenediamine is such that R_2 is a trialkylammonium radical.

98. (New) The composition of claim 31, wherein the cationic tertiary para-phenylenediamine is such that R_2 represents the onium radical Z corresponding to formula III



(III)

in which

D is a single bond or a linear or branched C_1-C_{14} alkylene chain which may contain one or more heteroatoms chosen from oxygen, sulphur or nitrogen, and which may be substituted with one or more hydroxyl, C_1-C_6 alkoxy or amino radicals, and which may carry one or more ketone functional groups;

the vertices E, G, J, L, which are identical or different, represent a carbon, oxygen, sulphur or nitrogen atom to form a pyrrole, pyrazole, imidazole, triazole, oxazole, isooxazole, thiazole, isothiazole ring,

q is an integer between 0 and 4 inclusive;

is an integer between 0 and 3 inclusive;

q+o is an integer between 0 and 4;

the radicals R_8, which are identical or different, represent a halogen atom, a hydroxyl radical, a C_1-C_6 alkyl radical, a C_1-C_6 monohydroxyalkyl radical, a C_2-C_6 polyhydroxyalkyl radical, a C_1-C_6 alkoxy radical, a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical, an amido radical, a carboxyl radical, a C_1-C_6 alkylcarbonyl radical, a thio radical, a C_1-C_6 thioalkyl radical, a (C_1-C_6)alkylthio radical, an amino radical, an amino radical which is mono- or di-substituted with a (C_1-C_6)alkyl, (C_1-C_6)alkylcarbonyl, amido or (C_1-C_6)alkylsulphonyl radical; a C_1-C_6 monohydroxyalkyl radical or a C_2-C_6 polyhydroxyalkyl radical; it being understood that the radicals R_8 are carried by a carbon atom,

the radicals R_9, which are identical or different, represent a C_1-C_6 alkyl radical, a C_1-C_6 monohydroxyalkyl radical, a C_2-C_6 polyhydroxyalkyl radical, a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical, a (C_1-C_6)alkoxy(C_1-C_6)alkyl radical, a C_1-C_6 carbamylalkyl radical, a (C_1-C_6)alkylcarboxy(C_1-C_6)alkyl radical, a benzyl radical; it being understood that the radicals R_9 are carried by a nitrogen,

R_{10} represents a C_1-C_6 alkyl radical; a C_1-C_6 monohydroxyalkyl radical; a C_2-C_6 polyhydroxyalkyl radical; an aryl radical; a benzyl radical; a C_1-C_6 aminoalkyl radical, a C_1-C_6 aminoalkyl radical whose amine is substituted with a (C_1-C_6)alkyl, (C_1-C_6)alkylcarbonyl, amido or (C_1-C_6)alkylsulphonyl radical; a C_1-C_6 carboxyalkyl radical; a C_1-C_6 carbamylalkyl radical; a C_1-C_6 trifluoroalkyl radical; a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical; a C_1-C_6 sulphonamidoalkyl radical; a (C_1-C_6)alkylcarboxy(C_1-C_6)alkyl radical; a (C_1-C_6)alkylsulphonyl(C_1-C_6)alkyl radical; a (C_1-C_6)alkylsulphonyl(C_1-C_6)alkyl radical; a (C_1-

C_6)alkylcarbonyl(C_1-C_6)alkyl radical; an N-(C_1-C_6)alkylcarbamyl(C_1-C_6)alkyl radical; an N-(C_1-C_6)alkylsulphonamido(C_1-C_6)alkyl radical;

x is 0 or 1

when x = 0, the linking arm D is attached to the nitrogen atom,

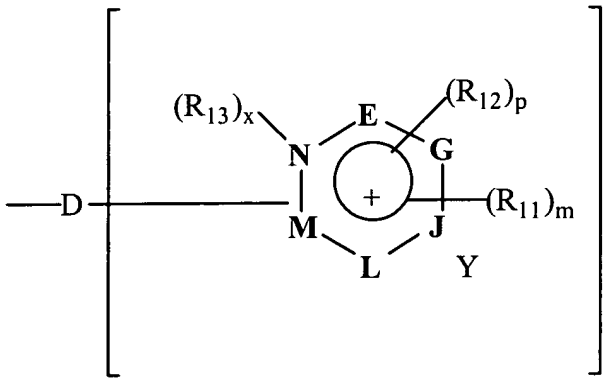
when x = 1, the linking arm D is attached to one of the vertices E, G, J or L,

Y is a counter-ion.

99. (New) The composition of claim 98, wherein the cationic tertiary para-phenylenediamine is such that the vertices E, G, J and L form an imidazole ring.

100. (New) The composition of claim 98, wherein the cationic tertiary para-phenylenediamine is such that x is equal to 0, D is a single bond or an alkylene chain which may be substituted.

101. (New) The composition of claim 31, wherein the cationic tertiary para-phenylenediamine is such that R_2 represents an onium radical Z corresponding to formula IV



(IV)

in which:

D is a single bond or a linear or branched C_1-C_{14} alkylene chain which may contain one or more heteroatoms chosen from an oxygen, sulphur or nitrogen atom, and which

may be substituted with one or more hydroxyl, C_1-C_6 alkoxy or amino radicals, and which may carry one or more ketone functional groups;

the vertices E, G, J, L and M, which are identical or different, represent a carbon, oxygen, sulphur or nitrogen atom to form a ring chosen from the pyridine, pyrimidine, pyrazine, triazine and pyridazine rings;

p is an integer between 0 and 3 inclusive;

m is an integer between 0 and 5 inclusive;

p+m is an integer between 0 and 5;

the radicals R_{11}, which are identical or different, represent a halogen atom, a hydroxyl radical, a C_1-C_6 alkyl radical, a C_1-C_6 monohydroxyalkyl radical, a C_2-C_6 polyhydroxyalkyl radical, a C_1-C_6 alkoxy radical, a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical, an amido radical, a carboxyl radical, a C_1-C_6 alkylcarbonyl radical, a thio radical, a C_1-C_6 thioalkyl radical, a (C_1-C_6)alkylthio radical, an amino radical, an amino radical which is substituted with a (C_1-C_6)alkyl, (C_1-C_6)alkylcarbonyl, amido or (C_1-C_6)alkylsulphonyl radical; a C_1-C_6 monohydroxyalkyl radical or a C_2-C_6 polyhydroxyalkyl radical; it being understood that the radicals R_{11} are carried by a carbon atom,

the radicals R_{12}, which are identical or different, represent a C_1-C_6 alkyl radical, a C_1-C_6 monohydroxyalkyl radical, a C_2-C_6 polyhydroxyalkyl radical, a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical, a (C_1-C_6)alkoxy(C_1-C_6)alkyl radical, a C_1-C_6 carbamylalkyl radical, a (C_1-C_6)alkylcarboxy(C_1-C_6)alkyl radical, a benzyl radical; it being understood that the radicals R_{12} are carried by a nitrogen,

R_{13} represents a C_1-C_6 alkyl radical; a C_1-C_6 monohydroxyalkyl radical; a C_2-C_6 polyhydroxyalkyl radical; an aryl radical; a benzyl radical; a C_1-C_6 aminoalkyl radical, a C_1-C_6 aminoalkyl radical whose amine is mono- or di-substituted with a (C_1-C_6)alkyl, (C_1-C_6)alkylcarbonyl, amido or (C_1-C_6)alkylsulphonyl radical; a C_1-C_6 carboxyalkyl radical; a C_1-C_6 carbamylalkyl radical; a C_1-C_6 trifluoroalkyl radical; a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical; a C_1-C_6 sulphonamidoalkyl radical; a (C_1-C_6)alkylcarboxy(C_1-C_6)alkyl radical; a (C_1-C_6)alkylsulphonyl(C_1-

C_6)alkyl radical; a (C_1-C_6)alkylsulphonyl(C_1-C_6)alkyl radical; a (C_1-C_6)alkylcarbonyl(C_1-C_6)alkyl radical; an N-(C_1-C_6)alkylcarbamyl(C_1-C_6)alkyl radical; an N-(C_1-C_6)alkylsulphonamido(C_1-C_6)alkyl radical;

x is 0 or 1

when x = 0, the linking arm D is attached to the nitrogen atom,

when x = 1, the linking arm D is attached to one of the vertices E, G, J, L or M,

Y is a counter-ion.

102. (New) The composition of claim 101, wherein the vertices E, G, J, L and M form, with the nitrogen of the ring, a ring chosen from pyridine and pyrimidine rings.

103. (New) The composition of claim 101, wherein the cationic tertiary para-phenylenediamine is such that x is equal to 0 and R_{11} is chosen from a hydroxyl radical, a C_1-C_6 alkyl radical, a C_1-C_6 monohydroxyalkyl radical, a C_2-C_6 polyhydroxyalkyl radical, a C_1-C_6 alkoxy radical, a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical, an amido radical, a C_1-C_6 alkylcarbonyl radical, an amino radical, an amino radical which is mono- or di-substituted with a (C_1-C_6)alkyl, a (C_1-C_6)alkylcarbonyl, amido or (C_1-C_6)alkylsulphonyl radical; a C_1-C_6 monohydroxyalkyl radical or a C_2-C_6 polyhydroxyalkyl radical and R_{12} is chosen from a C_1-C_6 alkyl radical, a C_1-C_6 monohydroxyalkyl radical, a C_2-C_6 polyhydroxyalkyl radical, a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical, a (C_1-C_6)alkoxy(C_1-C_6)alkyl radical, a C_1-C_6 carbamylalkyl radical.

104. (New) The composition of claim 101, wherein the cationic tertiary para-phenylenediamine is such that x is equal to 1 and R_{13} is chosen from a C_1-C_6 alkyl radical; a C_1-C_6 monohydroxyalkyl radical; a C_2-C_6 polyhydroxyalkyl radical; a C_1-C_6 aminoalkyl radical, a C_1-C_6 aminoalkyl radical whose amine is mono- or di-substituted with a (C_1-C_6)alkyl radical, a (C_1-C_6)alkylcarbonyl radical, an amido radical, a (C_1-C_6)alkylsulphonyl radical; a C_1-C_6 carbamylalkyl radical; a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical; a (C_1-C_6)alkylcarbonyl(C_1-C_6)alkyl radical; an N-(C_1-C_6)alkylcarbamyl(C_1-C_6)alkyl radical; R_{11} is chosen from a hydroxyl radical, a C_1-C_6 alkyl radical, a C_1-C_6 monohydroxyalkyl radical, a C_2-C_6 polyhydroxyalkyl radical, a C_1-C_6 alkoxy radical, a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical, an amido radical, a C_1-C_6 alkylcarbonyl radical, an amino radical, an amino radical which is mono- or di- substituted

with a (C_1-C_6)alkyl, (C_1-C_6)alkylcarbonyl, amido or (C_1-C_6)alkylsulphonyl radical; and R_{12} is chosen from a C_1-C_6 alkyl radical, a C_1-C_6 monohydroxyalkyl radical, a C_2-C_6 polyhydroxyalkyl radical, a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical, a (C_1-C_6)alkoxy(C_1-C_6)alkyl radical, a C_1-C_6 carbamylalkyl radical.

105. (New) The composition of claim 101, wherein the cationic tertiary para-phenylenediamine is such that R_{11}, R_{12} and R_{13} are alkyl radicals which may be substituted.

106. (New) The composition of claim 31, wherein the cationic tertiary para-phenylenediamine is such that the radical R_2 is the radical of formula -XP(O)(O-) $OCH_2CH_2N^+(CH_3)_3$ where X represents an oxygen atom or a radical $-NR_{14}$, R_{14} representing a hydrogen, a C_1-C_4 alkyl radical or a hydroxyalkyl radical.

107. (New) The composition of claim 31, wherein the cationic tertiary para-phenylenediamine is such that the radical R_2 is a guanidine radical of formula $-X-C=NR_8-NR_9R_{10}$, X represents an oxygen atom or a radical $-NR_{11}$, R_8, R_9, R_{10} and R_{11} representing a hydrogen, a C_1-C_4 alkyl radical or a hydroxyalkyl radical.

108. (New) The composition of claim 31, wherein the cationic tertiary para-phenylene is chosen from the group consisting of:

[1-(4-Aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride,

[1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyltetradecylammonium bromide

N'-[1-(4-Aminophenyl)pyrrolidin-3-yl]-N,N-dimethyl-guanidinium chloride

N-[1-(4-Aminophenyl)pyrrolidin-3-yl]guanidinium chloride

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride

[1-(4-Aminophenyl)pyrrolidin-3-yl]-(2-hydroxyethyl)dimethylammonium chloride

[1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyl-(3-trimethylsilanylpropyl)ammonium chloride

[1-(4-Aminophenyl)pyrrolidin-3-yl]-(trimethylammonium-hexyl)dimethylammonium dichloride

[1-(4-Aminophenyl)pyrrolidin-3-yl]oxophosphorylcholine

{2-[1-(4-Aminophenyl)pyrrolidin-3-yloxy]ethyl}trimethylammonium chloride

1-{2-[1-(4-Aminophenyl)pyrrolidin-3-yloxy]ethyl}-1-methylpyrrolidinium chloride

3-{3-[1-(4-Aminophenyl)pyrrolidin-3-yloxy]propyl}-1-methyl-3H-imidazol-1-ium chloride

1-{2-[1-(4-Aminophenyl)pyrrolidin-3-yloxy]ethyl}-1-methylpiperidinium chloride

3-{3-[1-(5-trimethylsilanylethyl-4-Amino-3- trimethylsilanylethylphenyl)pyrrolidin-3-yloxy]propyl}-1-methyl-3H-imidazol-1-um chloride

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]trimethyammonium chloride

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]dimethyltetradecylammonium chloride

N'-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-N,N-dimethylguanidinium chloride

N-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]guanidinium chloride

3-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-(2-hydroxyethyl)dimethylammonium chloride

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]dimethyl-(3-trimethylsilanylpropylammonium chloride

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-(trimethylammoniumhexyl-dimethylammonium dichloride

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]oxophosphorylcholine

{2-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yloxy]ethyl}trimethylammonium chloride

1-{2-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yloxy]ethyl}-1-methylpyrrolidinium chloride

3-{3-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yloxy]-propyl}1-methyl-3H-imidazol-1-um chloride

1-{2-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yloxy]ethyl}-1-methylpiperidinium chloride

[1-(4-Amino-3-trimethylsilanylethylphenyl)pyrrolidin-3-yl]trimethylammonium chloride

3-[1-(4-Amino-3-trimethylsilanylethylphenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride

3-{3-[1-(4-Amino-3-trimethylsilanylethylphenyl)pyrrolidin-3-yloxy]propyl}-1-methyl-3H-imidazol-1-um chloride

[1-(5-trimethylsilanylethyl-4-Amino-3-trimethylsilanylethylphenyl)pyrrolidin-3-yl]trimethylammonium chloride

3-[1-(5-trimethylsilanylethyl-4-Amino-3-trimethylsilanylethylphenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride

1'-(4-Aminophenyl)-1-methyl-[1,3']bipyrrolidinyl-1-ium chloride

1'-(4-Amino-3-methylphenyl)-1-methyl-[1,3']bipyrrolidinyl-1-ium chloride

3-{[1-(4-Aminophenyl)pyrrolidin-3-ylcarbamoyl]methyl}-1-methyl-3H-imidazol-1-ium chloride

3-{[1-(4-Amino-3-methylphenyl)pyrrolidin-3-ylcarbamoyl]methyl}-1-methyl-3H-imidazol-1-ium chloride

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-(3-trimethylsilanylpropyl)-3H-imidazol-1-ium chloride

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-(3-trimethylsilanylpropyl)-3H-imidazol-1-ium chloride

[1-(4-aminophenyl)pyrrolidin-3-yl]ethyldimethylammonium chloride

[1-(4-aminophenyl)pyrrolidin-3-yl]ethyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]propyldimethylammonium iodide,

[1-(4-aminophenyl)pyrrolidin-3-yl]propyldimethylammonium bromide

[1-(4-aminophenyl)pyrrolidin-3-yl]propyldimethylammonium methosulphate

[1-(4-aminophenyl)pyrrolidin-3-yl]butyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]pentyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]hexyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]heptyldimethylammonium iodide

[1-(4-Aminophenyl)pyrrolidin-3-yl]octyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]decyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]hexadecyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]hydroxyethyldimethylammonium chloride

[1-(4-aminophenyl)pyrrolidin-3-yl]hydroxyethyldimethylammonium iodide.

109. (New) The composition of claim 31, wherein the cationic tertiary para-phenylene is chosen from the group consisting of:

[1-(4-Aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride

[1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyltetradecylammonium bromide

N'-[1-(4-Aminophenyl)pyrrolidin-3-yl]-N,N-dimethylguanidinium chloride

N-[1-(4-Aminophenyl)pyrrolidin-3-yl]guanidinium chloride

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride

[1-(4-Aminophenyl)pyrrolidin-3-yl](2-hydroxyethyl)dimethylammonium chloride

[1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyl-(3-trimethylsilanylpropyl)ammonium chloride

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]trimethylammonium chloride

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]dimethyltetradecylammonium chloride

N'-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-N,N-dimethylguanidinium chloride

N-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]guanidinium chloride

3-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-(2-hydroxyethyl)dimethylammonium chloride

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]dimethyl-(3-trimethylsilanylpropylammonium chloride

1'-(4-Aminophenyl)-1-methyl-[1,3']bipyrrolidinyl-1-ium chloride

1'-(4-Amino-3-methylphenyl)-1-methyl-[1,3']bipyrrolidinyl-1-ium chloride

3-{[1-(4-Aminophenyl)pyrrolidin-3-ylcarbamoyl]methyl}-1-methyl-3H-imidazol-1-ium chloride

3-{[1-(4-Amino-3-methylphenyl)pyrrolidin-3-ylcarbamoyl]methyl}-1-methyl-3H-imidazol-1-ium chloride

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-(3-trimethylsilanylpropyl)-3H-imidazol-1-ium chloride

3-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-1-(3-trimethylsilanyl-propyl)-3H-imidazol-1-ium chloride

[1-(4-aminophenyl)pyrrolidin-3-yl]ethyldimethylammonium chloride

[1-(4-aminophenyl)pyrrolidin-3-yl]ethyldimethylammonium iodide

[1-(4-Aminophenyl)pyrrolidin-3-yl]propyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]propyldimethylammonium bromide

[1-(4-aminophenyl)pyrrolidin-3-yl]propyldimethylammonium methosulphate

[1-(4-aminophenyl)pyrrolidin-3-yl]butyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]pentyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]hexyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]heptyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]octyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]decyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]hexadecyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]hydroxyethyldimethylammonium chloride

[1-(4-aminophenyl)pyrrolidin-3-yl]hydroxyethyldimethylammonium iodide.

110. (New) The composition of claim 31, wherein the cationic tertiary para-phenylene is chosen from the group consisting of:

[1-(4-Aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride

[1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyltetradecylammonium bromide

N'-[1-(4-Aminophenyl)pyrrolidin-3-yl]-N,N-dimethylguanidinium chloride

N-[1-(4-Aminophenyl)pyrrolidin-3-yl]guanidinium chloride

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride

[1-(4-Aminophenyl)pyrrolidin-3-yl]-(2-hydroxyethyl)dimethylammonium chloride

[1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyl-(3-trimethylsilanylpropyl)ammonium chloride

[1-(4-Aminophenyl)pyrrolidin-3-yl]-(trimethylammoniumhexyl)dimethylammonium dichloride

1'-(4-Aminophenyl)-1-methyl-[1,3']bipyrrolidinyl-1-ium chloride

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-(3-trimethylsilanylpropyl)-3H-imidazol-1-ium chloride

3-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-1-(3-trimethylsilanylpropyl)-3H-imidazol-1-ium chloride

[1-(4-aminophenyl)pyrrolidin-3-yl]ethyldimethylammonium chloride

[1-(4-aminophenyl)pyrrolidin-3-yl]ethyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]propyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]propyldimethylammonium bromide

[1-(4-aminophenyl)pyrrolidin-3-yl]propyldimethylammonium methosulphate

[1-(4-aminophenyl)pyrrolidin-3-yl]butyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]pentyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]hexyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]heptyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]octyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]decyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]hexadecyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]hydroxyethyldimethylammonium chloride

[1-(4-aminophenyl)pyrrolidin-3-yl]hydroxyethyldimethylammonium iodide.

111. (New) The composition of claim 31, wherein the cationic tertiary para-phenylene is chosen from the group consisting of:

[1-(4-Aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride

[1-(4-Aminophenyl)pyrrolidin-3-yl]-(2-hydroxyethyl)dimethylammonium chloride

1'-(4-Aminophenyl)-1-methyl-[1,3']bipyrrolidinyl-1-ium chloride.

112. (New) The composition of claim 31, wherein the cationic tertiary para-phenylene is chosen from the group consisting of:

[1-(4-Aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride, and

[1-(4-Aminophenyl)pyrrolidin-3-yl]-(2-hydroxyethyl)dimethylammonium chloride.

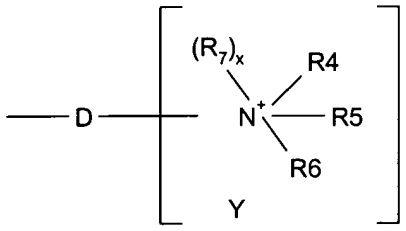
113. (New) The composition of claim 40, wherein the cationic tertiary para-phenylenediamine is such that n is equal to 0.

114. (New) The composition of claim 40, wherein the cationic tertiary para-phenylenediamine is such that n is equal to 1 and R_1 is chosen from the group consisting of a halogen atom; a saturated or unsaturated, aliphatic or alicylic, C_1-C_6 hydrocarbon chain; it being possible for one or more carbon atoms to be replaced by an oxygen, nitrogen, silicon or sulphur atom, or by an SO_2 group, the radical R_1 not containing a peroxide bond, or diazo, nitro or nitroso radicals.

115. (New) The composition of claim 40, wherein the cationic tertiary para-phenylenediamine is such that R_1 is chosen from chlorine, bromine, C_1-C_4 alkyl, C_1-C_4 hydroxyalkyl, C_1-C_4 aminoalkyl, C_1-C_4 alkoxy or C_1-C_4 hydroxyalkoxy radicals.

116. (New) The composition of claim 115, wherein the cationic tertiary para-phenylenediamine is such that R_1 is chosen from a methyl, hydroxymethyl, 2-hydroxyethyl, 1,2-dihydroxyethyl, methoxy, isopropyloxy or 2-hydroxyethoxy radical.

117. (New) The composition of claim 40, wherein the cationic tertiary para-phenylenediamine is such that R_2 represents the onium radical Z corresponding to formula (II)



(II)

in which

D is a single bond of a linear or branched C_1-C_{14} alkylene chain which may contain one or more heteroatoms chosen from oxygen, sulphur or nitrogen, and which may be substituted with one or more hydroxyl, C_1-C_6 alkoxy or amino radicals and which may carry one or more ketone functional groups;

R_4, R_5 and R_6, taken separately, represent a C_1-C_{15} alkyl radical; a C_1-C_6 monohydroxyalkyl radical; a C_2-C_6 polyhydroxyalkyl radical; a (C_1-C_6)alkoxy(C_1-C_6)alkyl radical; an aryl radical; a benzyl radical; a C_1-C_6 amidoalkyl radical; a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical; a C_1-C_6 aminoalkyl radical; a C_1-C_6 aminoalkyl radical in which the amine is mono- or di-substituted with a C_1-C_4 alkyl, (C_1-C_6)alkylcarbonyl, amido or (C_1-C_6)alkylsulphonyl radical; or

R_4, R_5 and R_6 together, in pairs, form, with the nitrogen atom to which they are attached, a 4-, 5-, 6- or 7-membered saturated carbon ring which may contain one or more heteroatoms, it being possible for the cationic ring to be substituted with a

halogen atom, a hydroxyl radical, a C_1-C_6 alkyl radical, a C_1-C_6 monohydroxyalkyl radical, a C_2-C_6 polyhydroxy-alkyl radical, a C_1-C_6 alkoxy radical, a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical, an amido radical, a carboxyl radical, a (C_1-C_6)alkylcarbonyl radical, a thio (-SH) radical, a C_1-C_6 thioalkyl (-R-SH) radical, a (C_1-C_6)alkylthio radical, an amino radical, an amino radical which is mono- or di-substituted with a (C_1-C_6)alkyl, (C_1-C_6)alkylcarbonyl, amido or (C_1-C_6)alkylsulphonyl radical;

R_7 represents a C_1-C_6 alkyl radical; a C_1-C_6 monohydroxyalkyl radical; a C_2-C_6 polyhydroxyalkyl radical; an aryl radical; a benzyl radical; a C_1-C_6 aminoalkyl radical; a C_1-C_6 aminoalkyl radical whose amine is mono- or di-substituted with a (C_1-C_6)alkyl, (C_1-C_6)alkylcarbonyl, amido or (C_1-C_6)alkylsulphonyl radical; a C_1-C_6 carboxyalkyl radical; a C_1-C_6 carbamylalkyl radical; a C_1-C_6 trifluroalkyl radical; a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical; a C_1-C_6 sulphonamidoalkyl radical; a (C_1-C_6)alkylcarboxy(C_1-C_6)alkyl radical; a (C_1-C_6)alkylsulphinyl(C_1-C_6)alkyl radical; a (C_1-C_6)alkylsulphonyl(C_1-C_6)alkyl radical; a (C_1-C_6)alkylcarbonyl(C_1-C_6)alkyl radical; an N-(C_1-C_6)alkylcarbamyl(C_1-C_6)alkyl radical; an N-(C_1-C_6)alkylsulphonamido(C_1-C_6)alkyl radical;

x is 0 or 1,

when x = 0, then the linking arm is attached to the nitrogen atom carrying the radicals R_4 to R_6;

when x = 1, then two of the radicals R_4 to R_6 form, together with the nitrogen atom to which they are attached, a 4-, 5-, 6- or 7-membered saturated ring and D is linked to the carbon atom of the saturated ring;

Y is a counter-ion.

118. (New) The composition of claim 117, wherein the cationic tertiary para-phenylenediamine is such that R_2 corresponds to formula II in which x is equal to 0 and R_4, R_5 and R_6 separately are preferably chosen from a C_1-C_6 alkyl radical, a C_1-C_4 monohydroxyalkyl radical, a C_2-C_4 polyhydroxyalkyl radical, a (C_1-C_6)alkoxy(C_1-C_4)alkyl radical, a C_1-C_6 amidoalkyl radical, a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical, or R_4 with R_5 form together an

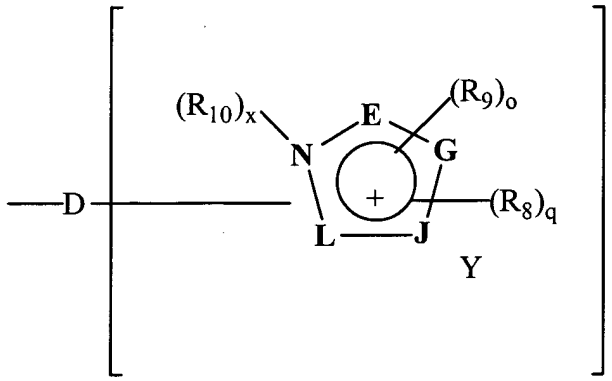
azetidine ring, a pyrrolidine, piperidine, piperazine or morpholine ring, R_6 being chosen in this case from a C_1-C_6 alkyl radical; a C_1-C_6 monohydroxyalkyl radical, a C_2-C_6 polyhydroxyalkyl radical; a C_1-C_6 aminoalkyl radical, an aminoalkyl radical which is mono- or di-substituted with a (C_1-C_6)alkyl radical, a (C_1-C_6)alkylcarbonyl, amido or (C_1-C_6)alkylsulphonyl radical; a C_1-C_6 carbamylalkyl radical; a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical; a (C_1-C_6)alkyl carboxy(C_1-C_6)alkyl radical; a (C_1-C_6)alkylcarbonyl(C_1-C_6)alkyl radical; an N-(C_1-C_6)alkylcarbamyl(C_1-C_6)alkyl radical.

119. (New) The composition of claim 117, wherein the cationic tertiary para-phenylenediamine is such that R_2 corresponds to formula II in which x is equal to 1 and R_7 is chosen from a C_1-C_6 alkyl radical; a C_1-C_6 monohydroxyalkyl radical; a C_2-C_6 polyhydroxy-alkyl radical; a C_1-C_6 aminoalkyl radical, a C_1-C_6 aminoalkyl radical whose amine is mono- or di-substited with a (C_1-C_6)alkyl, (C_1-C_6)alkylcarbonyl, amido or a (C_1-C_6)alkylsulphonyl radical; a C_1-C_6 carbamylalkyl radical, a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical; a (C_1-C_6)alkylcarboxy(C_1-C_6)alkyl radical; a (C_1-C_6)alkylcarbonyl(C_1-C_6)alkyl radical; an N-(C_1-C_6)alkylcarbamyl(C_1-C_6)alkyl radical; R_4 with R_5 together form an azetidine, pyrrolidine, piperidine, piperazine or morpholine ring, R_6 being chosen in this case from a C_1-C_6 alkyl radical; a C_1-C_6 monohydroxyalkyl radical; a C_2-C_6 polyhydroxyl alkyl radical; a C_1-C_6 aminoalkyl radical; a C_1-C_6 aminoalkyl radical whose amine is mono- or di-substituted with a (C_1-C_6)alkyl, (C_1-C_6)alkylcarbonyl, amido or (C_1-C_6)alkylsulphonyl radical; a C_1-C_6 carbamylalkyl radical; a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical; a (C_1-C_6)alkylcarboxy(C_1-C_6)alkyl radical; a (C_1-C_6)alkylcarbonyl(C_1-C_6)alkyl radical; an N-(C_1-C_6)alkylcarbamyl(C_1-C_6)alkyl radical.

120. (New) The composition of claim 117, wherein the cationic tertiary para-phenylenediamine is such that D is a single bond or an alkylene chain which may be substituted.

121. (New) The composition of claim 117, wherein the cationic tertiary para-phenylenediamine is such that R_2 is a trialkylammonium radical.

122. (New) The composition of claim 40, wherein the cationic tertiary para-phenylenediamine is such that R_2 represents the onium radical Z corresponding to formula III



(III)

in which

D is a single bond or a linear or branched C_1-C_{14} alkylene chain which may contain one or more heteroatoms chosen from oxygen, sulphur or nitrogen, and which may be substituted with one or more hydroxyl, C_1-C_6 alkoxy or amino radicals, and which may carry one or more ketone functional groups;

the vertices E, G, J, L, which are identical or different, represent a carbon, oxygen, sulphur or nitrogen atom to form a pyrrole, pyrazole, imidazole, triazole, oxazole, isooxazole, thiazole, isothiazole ring,

q is an integer between 0 and 4 inclusive;

is an integer between 0 and 3 inclusive;

q+o is an integer between 0 and 4;

the radicals R_8, which are identical or different, represent a halogen atom, a hydroxyl radical, a C_1-C_6 alkyl radical, a C_1-C_6 monohydroxyalkyl radical, a C_2-C_6 polyhydroxyalkyl radical, a C_1-C_6 alkoxy radical, a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical, an amido radical, a carboxyl radical, a C_1-C_6 alkylcarbonyl radical, a thio radical, a C_1-C_6 thioalkyl radical, a (C_1-C_6)alkylthio radical, an amino radical, an amino radical which is mono- or di-substituted with a (C_1-C_6)alkyl, (C_1-C_6)alkylcarbonyl, amido or (C_1-C_6)alkylsulphonyl radical; a C_1-C_6

monohydroxyalkyl radical or a C_2-C_6 polyhydroxyalkyl radical; it being understood that the radicals R_8 are carried by a carbon atom,

the radicals R_9, which are identical or different, represent a C_1-C_6 alkyl radical, a C_1-C_6 monohydroxyalkyl radical, a C_2-C_6 polyhydroxyalkyl radical, a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical, a (C_1-C_6)alkoxy(C_1-C_6)alkyl radical, a C_1-C_6 carbamylalkyl radical, a (C_1-C_6)alkylcarboxy(C_1-C_6)alkyl radical, a benzyl radical; it being understood that the radicals R_9 are carried by a nitrogen,

R_{10} represents a C_1-C_6 alkyl radical; a C_1-C_6 monohydroxyalkyl radical; a C_2-C_6 polyhydroxyalkyl radical; an aryl radical; a benzyl radical; a C_1-C_6 aminoalkyl radical, a C_1-C_6 aminoalkyl radical whose amine is substituted with a (C_1-C_6)alkyl, (C_1-C_6)alkylcarbonyl, amido or (C_1-C_6)alkylsulphonyl radical; a C_1-C_6 carboxyalkyl radical; a C_1-C_6 carbamylalkyl radical; a C_1-C_6 trifluoroalkyl radical; a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical; a C_1-C_6 sulphonamidoalkyl radical; a (C_1-C_6)alkylcarboxy(C_1-C_6)alkyl radical; a (C_1-C_6)alkylsulphonyl(C_1-C_6)alkyl radical; a (C_1-C_6)alkylsulphonyl(C_1-C_6)alkyl radical; a (C_1-C_6)alkylcarbonyl(C_1-C_6)alkyl radical; an N-(C_1-C_6)alkylcarbamyl(C_1-C_6)alkyl radical; an N-(C_1-C_6)alkylsulphonamido(C_1-C_6)alkyl radical;

x is 0 or 1

when x = 0, the linking arm D is attached to the nitrogen atom,

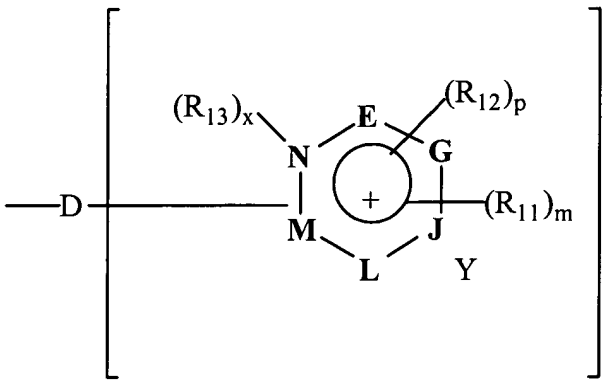
when x = 1, the linking arm D is attached to one of the vertices E, G, J or L,

Y is a counter-ion.

123. (New) The composition of claim 122, wherein the cationic tertiary para-phenylenediamine is such that the vertices E, G, J and L form an imidazole ring.

124. (New) The composition of claim 122, wherein the cationic tertiary para-phenylenediamine is such that x is equal to 0, D is a single bond or an alkylene chain which may be substituted.

125. (New) The composition of claim 40, wherein the cationic tertiary para-phenylenediamine is such that R_2 represents an onium radical Z corresponding to formula IV



(IV)

in which:

D is a single bond or a linear or branched C_1-C_{14} alkylene chain which may contain one or more heteroatoms chosen from an oxygen, sulphur or nitrogen atom, and which may be substituted with one or more hydroxyl, C_1-C_6 alkoxy or amino radicals, and which may carry one or more ketone functional groups;

the vertices E, G, J, L and M, which are identical or different, represent a carbon, oxygen, sulphur or nitrogen atom to form a ring chosen from the pyridine, pyrimidine, pyrazine, triazine and pyridazine rings;

p is an integer between 0 and 3 inclusive;

m is an integer between 0 and 5 inclusive;

p+m is an integer between 0 and 5;

the radicals R_{11}, which are identical or different, represent a halogen atom, a hydroxyl radical, a C_1-C_6 alkyl radical, a C_1-C_6 monohydroxyalkyl radical, a C_2-C_6 polyhydroxyalkyl radical, a C_1-C_6 alkoxy radical, a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical, an amido radical, a carboxyl radical, a C_1-C_6 alkylcarbonyl radical, a thio radical, a C_1-C_6 thioalkyl radical, a (C_1-C_6)alkylthio radical, an amino radical, an amino radical which is substituted with a (C_1-C_6)alkyl, (C_1-C_6)alkylcarbonyl, amido or (C_1-C_6)alkylsulphonyl radical; a C_1-C_6

monohydroxyalkyl radical or a C_2-C_6 polyhydroxyalkyl radical; it being understood that the radicals R_{11} are carried by a carbon atom,

the radicals R_{12}, which are identical or different, represent a C_1-C_6 alkyl radical, a C_1-C_6 monohydroxyalkyl radical, a C_2-C_6 polyhydroxyalkyl radical, a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical, a (C_1-C_6)alkoxy(C_1-C_6)alkyl radical, a C_1-C_6 carbamylalkyl radical, a (C_1-C_6)alkylcarboxy(C_1-C_6)alkyl radical, a benzyl radical; it being understood that the radicals R_{12} are carried by a nitrogen,

R_{13} represents a C_1-C_6 alkyl radical; a C_1-C_6 monohydroxyalkyl radical; a C_2-C_6 polyhydroxyalkyl radical; an aryl radical; a benzyl radical; a C_1-C_6 aminoalkyl radical, a C_1-C_6 aminoalkyl radical whose amine is mono- or di-substituted with a (C_1-C_6)alkyl, (C_1-C_6)alkylcarbonyl, amido or (C_1-C_6)alkylsulphonyl radical; a C_1-C_6 carboxyalkyl radical; a C_1-C_6 carbamylalkyl radical; a C_1-C_6 trifluoroalkyl radical; a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical; a C_1-C_6 sulphonamidoalkyl radical; a (C_1-C_6)alkylcarboxy(C_1-C_6)alkyl radical; a (C_1-C_6)alkylsulphonyl(C_1-C_6)alkyl radical; a (C_1-C_6)alkylsulphonyl(C_1-C_6)alkyl radical; a (C_1-C_6)alkylcarbonyl(C_1-C_6)alkyl radical; an N-(C_1-C_6)alkylcarbamyl(C_1-C_6)alkyl radical; an N-(C_1-C_6)alkylsulphonamido(C_1-C_6)alkyl radical;

x is 0 or 1

when x = 0, the linking arm D is attached to the nitrogen atom,

when x = 1, the linking arm D is attached to one of the vertices E, G, J, L or M,

Y is a counter-ion.

126. (New) The composition of claim 125, wherein the vertices E, G, J, L and M form, with the nitrogen of the ring, a ring chosen from pyridine and pyrimidine rings.

127. (New) The composition of claim 125, wherein the cationic tertiary para-phenylenediamine is such that x is equal to 0 and R_{11} is chosen from a hydroxyl radical, a C_1-C_6 alkyl radical, a C_1-C_6 monohydroxyalkyl radical, a C_2-C_6 polyhydroxyalkyl radical, a C_1-C_6 alkoxy radical, a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical, an amido radical, a C_1-C_6 alkylcarbonyl radical, an amino radical, an amino radical which is mono- or di-substituted with a (C_1-C_6)alkyl, a (C_1-C_6)alkylcarbonyl, amido or (C_1-C_6)alkylsulphonyl radical; a C_1-C_6

monohydroxyalkyl radical or a C_2-C_6 polyhydroxyalkyl radical and R_{12} is chosen from a C_1-C_6 alkyl radical, a C_1-C_6 monohydroxyalkyl radical, a C_2-C_6 polyhydroxyalkyl radical, a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical, a (C_1-C_6)alkoxy(C_1-C_6)alkyl radical, a C_1-C_6 carbamylalkyl radical.

128. (New) The composition of claim 125, wherein the cationic tertiary para-phenylenediamine is such that x is equal to 1 and R_{13} is chosen from a C_1-C_6 alkyl radical; a C_1-C_6 monohydroxyalkyl radical; a C_2-C_6 polyhydroxyalkyl radical; a C_1-C_6 aminoalkyl radical, a C_1-C_6 aminoalkyl radical whose amine is mono- or di-substituted with a (C_1-C_6)alkyl radical, a (C_1-C_6)alkylcarbonyl radical, an amido radical, a (C_1-C_6)alkylsulphonyl radical; a C_1-C_6 carbamylalkyl radical; a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical; a (C_1-C_6)alkylcarbonyl(C_1-C_6)alkyl radical; an N-(C_1-C_6)alkylcarbamyl(C_1-C_6)alkyl radical; R_{11} is chosen from a hydroxyl radical, a C_1-C_6 alkyl radical, a C_1-C_6 monohydroxyalkyl radical, a C_2-C_6 polyhydroxyalkyl radical, a C_1-C_6 alkoxy radical, a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical, an amido radical, a C_1-C_6 alkylcarbonyl radical, an amino radical, an amino radical which is mono- or di- substituted with a (C_1-C_6)alkyl, (C_1-C_6)alkylcarbonyl, amido or (C_1-C_6)alkylsulphonyl radical; and R_{12} is chosen from a C_1-C_6 alkyl radical, a C_1-C_6 monohydroxyalkyl radical, a C_2-C_6 polyhydroxyalkyl radical, a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical, a (C_1-C_6)alkoxy(C_1-C_6)alkyl radical, a C_1-C_6 carbamylalkyl radical.

129. (New) The composition of claim 125, wherein the cationic tertiary para-phenylenediamine is such that R_{11}, R_{12} and R_{13} are alkyl radicals which may be substituted.

130. (New) The composition of claim 40, wherein the cationic tertiary para-phenylenediamine is such that the radical R_2 is the radical of formula -XP(O)(O-) $OCH_2CH_2N^+(CH_3)_3$ where X represents an oxygen atom or a radical $-NR_{14}$, R_{14} representing a hydrogen, a C_1-C_4 alkyl radical or a hydroxyalkyl radical.

131. (New) The composition of claim 40, wherein the cationic tertiary para-phenylenediamine is such that the radical R_2 is a guanidine radical of formula $-X-C=NR_8-NR_9R_{10}$, X represents an oxygen atom or a radical $-NR_{11}$, R_8, R_9, R_{10} and R_{11} representing a hydrogen, a C_1-C_4 alkyl radical or a hydroxyalkyl radical.

132. (New) The composition of claim 40, wherein the cationic tertiary para-phenylene is chosen from the group consisting of:

[1-(4-Aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride,

[1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyltetradecylammonium bromide

N'-[1-(4-Aminophenyl)pyrrolidin-3-yl]-N,N-dimethyl-guanidinium chloride

N-[1-(4-Aminophenyl)pyrrolidin-3-yl]guanidinium chloride

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride

[1-(4-Aminophenyl)pyrrolidin-3-yl]-(2-hydroxyethyl)dimethylammonium chloride

[1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyl-(3-trimethylsilanylpropyl)ammonium chloride

[1-(4-Aminophenyl)pyrrolidin-3-yl]-(trimethylammonium-hexyl)dimethylammonium dichloride

[1-(4-Aminophenyl)pyrrolidin-3-yl]oxophosphorylcholine

{2-[1-(4-Aminophenyl)pyrrolidin-3-yloxy]ethyl}trimethylammonium chloride

1-{2-[1-(4-Aminophenyl)pyrrolidin-3-yloxy]ethyl}-1-methylpyrrolidinium chloride

3-{3-[1-(4-Aminophenyl)pyrrolidin-3-yloxy]propyl}-1-methyl-3H-imidazol-1-ium chloride

1-{2-[1-(4-Aminophenyl)pyrrolidin-3-yloxy]ethyl}-1-methylpiperidinium chloride

3-{3-[1-(5-trimethylsilanylethyl-4-Amino-3- trimethylsilanylethylphenyl)pyrrolidin-3-yloxy]propyl}-1-methyl-3H-imidazol-1-um chloride

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]trimethyammonium chloride

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]dimethyltetradecylammonium chloride

N'-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-N,N-dimethylguanidinium chloride

N-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]guanidinium chloride

3-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-(2-hydroxyethyl)dimethylammonium chloride

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]dimethyl-(3-trimethylsilanylpropylammonium chloride

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-(trimethylammoniumhexyl-dimethylammonium dichloride

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]oxophosphorylcholine

{2-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yloxy]ethyl}trimethylammonium chloride

1-{2-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yloxy]ethyl}-1-methylpyrrolidinium chloride

3-{3-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yloxy]-propyl}1-methyl-3H-imidazol-1-um chloride

1-{2-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yloxy]ethyl}-1-methylpiperidinium chloride

[1-(4-Amino-3-trimethylsilanylethylphenyl)pyrrolidin-3-yl]trimethylammonium chloride

3-[1-(4-Amino-3-trimethylsilanylethylphenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride

3-{3-[1-(4-Amino-3-trimethylsilanylethylphenyl)pyrrolidin-3-yloxy]propyl}-1-methyl-3H-imidazol-1-um chloride

[1-(5-trimethylsilanylethyl-4-Amino-3-trimethylsilanylethylphenyl)pyrrolidin-3-yl]trimethylammonium chloride

3-[1-(5-trimethylsilanylethyl-4-Amino-3-trimethylsilanylethylphenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride

1'-(4-Aminophenyl)-1-methyl-[1,3']bipyrrolidinyl-1-ium chloride

1'-(4-Amino-3-methylphenyl)-1-methyl-[1,3']bipyrrolidinyl-1-ium chloride

3-{[1-(4-Aminophenyl)pyrrolidin-3-ylcarbamoyl]methyl}-1-methyl-3H-imidazol-1-ium chloride

3-{[1-(4-Amino-3-methylphenyl)pyrrolidin-3-ylcarbamoyl]methyl}-1-methyl-3H-imidazol-1-ium chloride

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-(3-trimethylsilanylpropyl)-3H-imidazol-1-ium chloride

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-(3-trimethylsilanylpropyl)-3H-imidazol-1-ium chloride

[1-(4-aminophenyl)pyrrolidin-3-yl]ethyldimethylammonium chloride

[1-(4-aminophenyl)pyrrolidin-3-yl]ethyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]propyldimethylammonium iodide,

[1-(4-aminophenyl)pyrrolidin-3-yl]propyldimethylammonium bromide

[1-(4-aminophenyl)pyrrolidin-3-yl]propyldimethylammonium methosulphate

[1-(4-aminophenyl)pyrrolidin-3-yl]butyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]pentyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]hexyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]heptyldimethylammonium iodide

[1-(4-Aminophenyl)pyrrolidin-3-yl]octyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]decyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]hexadecyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]hydroxyethyldimethylammonium chloride

[1-(4-aminophenyl)pyrrolidin-3-yl]hydroxyethyldimethylammonium iodide.

133. (New) The composition of claim 40, wherein the cationic tertiary para-phenylene is chosen from the group consisting of:

[1-(4-Aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride

[1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyltetradecylammonium bromide

N'-[1-(4-Aminophenyl)pyrrolidin-3-yl]-N,N-dimethylguanidinium chloride

N-[1-(4-Aminophenyl)pyrrolidin-3-yl]guanidinium chloride

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride

[1-(4-Aminophenyl)pyrrolidin-3-yl](2-hydroxyethyl)dimethylammonium chloride

[1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyl-(3-trimethylsilanylpropyl)ammonium chloride

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]trimethylammonium chloride

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]dimethyltetradecylammonium chloride

N'-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-N,N-dimethylguanidinium chloride

N-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]guanidinium chloride

3-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-(2-hydroxyethyl)dimethylammonium chloride

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]dimethyl-(3-trimethylsilanylpropylammonium chloride

1'-(4-Aminophenyl)-1-methyl-[1,3']bipyrrolidinyl-1-ium chloride

1'-(4-Amino-3-methylphenyl)-1-methyl-[1,3']bipyrrolidinyl-1-ium chloride

3-{[1-(4-Aminophenyl)pyrrolidin-3-ylcarbamoyl]methyl}-1-methyl-3H-imidazol-1-ium chloride

3-{[1-(4-Amino-3-methylphenyl)pyrrolidin-3-ylcarbamoyl]methyl}-1-methyl-3H-imidazol-1-ium chloride

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-(3-trimethylsilanylpropyl)-3H-imidazol-1-ium chloride

3-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-1-(3-trimethylsilanyl-propyl)-3H-imidazol-1-ium chloride

[1-(4-aminophenyl)pyrrolidin-3-yl]ethyldimethylammonium chloride

[1-(4-aminophenyl)pyrrolidin-3-yl]ethyldimethylammonium iodide

[1-(4-Aminophenyl)pyrrolidin-3-yl]propyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]propyldimethylammonium bromide

[1-(4-aminophenyl)pyrrolidin-3-yl]propyldimethylammonium methosulphate

[1-(4-aminophenyl)pyrrolidin-3-yl]butyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]pentyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]hexyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]heptyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]octyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]decyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]hexadecyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]hydroxyethyldimethylammonium chloride

[1-(4-aminophenyl)pyrrolidin-3-yl]hydroxyethyldimethylammonium iodide.

134. (New) The composition of claim 40, wherein the cationic tertiary para-phenylene is chosen from the group consisting of:

[1-(4-Aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride

[1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyltetradecylammonium bromide

N'-[1-(4-Aminophenyl)pyrrolidin-3-yl]-N,N-dimethylguanidinium chloride

N-[1-(4-Aminophenyl)pyrrolidin-3-yl]guanidinium chloride

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride

[1-(4-Aminophenyl)pyrrolidin-3-yl]-(2-hydroxyethyl)dimethylammonium chloride

[1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyl-(3-trimethylsilanylpropyl)ammonium chloride

[1-(4-Aminophenyl)pyrrolidin-3-yl]-(trimethylammoniumhexyl)dimethylammonium dichloride

1'-(4-Aminophenyl)-1-methyl-[1,3']bipyrrolidinyl-1-ium chloride

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-(3-trimethylsilanylpropyl)-3H-imidazol-1-ium chloride

3-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-1-(3-trimethylsilanylpropyl)-3H-imidazol-1-ium chloride

[1-(4-aminophenyl)pyrrolidin-3-yl]ethyldimethylammonium chloride

[1-(4-aminophenyl)pyrrolidin-3-yl]ethyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]propyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]propyldimethylammonium bromide

[1-(4-aminophenyl)pyrrolidin-3-yl]propyldimethylammonium methosulphate

[1-(4-aminophenyl)pyrrolidin-3-yl]butyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]pentyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]hexyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]heptyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]octyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]decyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]hexadecyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]hydroxyethyldimethylammonium chloride

[1-(4-aminophenyl)pyrrolidin-3-yl]hydroxyethyldimethylammonium iodide.

135. (New) The composition of claim 40, wherein the cationic tertiary para-phenylene is chosen from the group consisting of:

[1-(4-Aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride

[1-(4-Aminophenyl)pyrrolidin-3-yl]-(2-hydroxyethyl)dimethylammonium chloride

1'-(4-Aminophenyl)-1-methyl-[1,3']bipyrrolidinyl-1-ium chloride.

136. (New) The composition of claim 40, wherein the cationic tertiary para-phenylene is chosen from the group consisting of:

[1-(4-Aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride, and

[1-(4-Aminophenyl)pyrrolidin-3-yl]-(2-hydroxyethyl)dimethylammonium chloride.

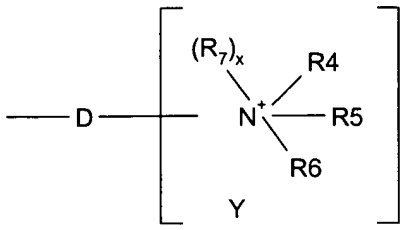
137. (New) The composition of claim 41, wherein the cationic tertiary para-phenylenediamine is such that n is equal to 0.

138. (New) The composition of claim 41, wherein the cationic tertiary para-phenylenediamine is such that n is equal to 1 and R_1 is chosen from the group consisting of a halogen atom; a saturated or unsaturated, aliphatic or alicylic, C_1-C_6 hydrocarbon chain; it being possible for one or more carbon atoms to be replaced by an oxygen, nitrogen, silicon or sulphur atom, or by an SO_2 group, the radical R_1 not containing a peroxide bond, or diazo, nitro or nitroso radicals.

139. (New) The composition of claim 41, wherein the cationic tertiary para-phenylenediamine is such that R_1 is chosen from chlorine, bromine, C_1-C_4 alkyl, C_1-C_4 hydroxyalkyl, C_1-C_4 aminoalkyl, C_1-C_4 alkoxy or C_1-C_4 hydroxyalkoxy radicals.

140. (New) The composition of claim 139, wherein the cationic tertiary para-phenylenediamine is such that R_1 is chosen from a methyl, hydroxymethyl, 2-hydroxyethyl, 1,2-dihydroxyethyl, methoxy, isopropyloxy or 2-hydroxyethoxy radical.

141. (New) The composition of claim 41, wherein the cationic tertiary para-phenylenediamine is such that R_2 represents the onium radical Z corresponding to formula (II)



(II)

in which

D is a single bond of a linear or branched C_1-C_{14} alkylene chain which may contain one or more heteroatoms chosen from oxygen, sulphur or nitrogen, and which may be substituted with one or more hydroxyl, C_1-C_6 alkoxy or amino radicals and which may carry one or more ketone functional groups;

R_4, R_5 and R_6, taken separately, represent a C_1-C_{15} alkyl radical; a C_1-C_6 monohydroxyalkyl radical; a C_2-C_6 polyhydroxyalkyl radical; a (C_1-C_6)alkoxy(C_1-C_6)alkyl radical; an aryl radical; a benzyl radical; a C_1-C_6 amidoalkyl radical; a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical; a C_1-C_6 aminoalkyl radical; a C_1-C_6 aminoalkyl radical in which the amine is mono- or di-substituted with a C_1-C_4 alkyl, (C_1-C_6)alkylcarbonyl, amido or (C_1-C_6)alkylsulphonyl radical; or

R_4, R_5 and R_6 together, in pairs, form, with the nitrogen atom to which they are attached, a 4-, 5-, 6- or 7-membered saturated carbon ring which may contain one or more heteroatoms, it being possible for the cationic ring to be substituted with a halogen atom, a hydroxyl radical, a C_1-C_6 alkyl radical, a C_1-C_6 monohydroxyalkyl radical, a C_2-C_6 polyhydroxy-alkyl radical, a C_1-C_6 alkoxy radical, a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical, an amido radical, a carboxyl radical, a (C_1-C_6)alkylcarbonyl radical, a thio (-SH) radical, a C_1-C_6 thioalkyl (-R-SH) radical, a (C_1-C_6)alkylthio radical, an amino radical, an amino radical which is mono- or di-substituted with a (C_1-C_6)alkyl, (C_1-C_6)alkylcarbonyl, amido or (C_1-C_6)alkylsulphonyl radical;

R_7 represents a C_1-C_6 alkyl radical; a C_1-C_6 monohydroxyalkyl radical; a C_2-C_6 polyhydroxyalkyl radical; an aryl radical; a benzyl radical; a C_1-C_6 aminoalkyl radical; a C_1-C_6 aminoalkyl radical whose amine is mono- or di-substituted with a (C_1-C_6)alkyl, (C_1-C_6)alkylcarbonyl, amido or (C_1-C_6)alkylsulphonyl radical; a C_1-C_6 carboxyalkyl radical; a C_1-C_6 carbamylalkyl radical; a C_1-C_6 trifluroalkyl radical; a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical; a C_1-C_6 sulphonamidoalkyl radical; a (C_1-C_6)alkylcarboxy(C_1-C_6)alkyl radical; a (C_1-C_6)alkylsulphinyl(C_1-C_6)alkyl radical; a (C_1-C_6)alkylsulphonyl(C_1-C_6)alkyl radical; a

(C_1-C_6)alkylcarbonyl(C_1-C_6)alkyl radical; an N-(C_1-C_6)alkylcarbamyl(C_1-C_6)alkyl radical; an N-(C_1-C_6)alkylsulphonamido(C_1-C_6)alkyl radical;

x is 0 or 1,

when x = 0, then the linking arm is attached to the nitrogen atom carrying the radicals R_4 to R_6;

when x = 1, then two of the radicals R_4 to R_6 form, together with the nitrogen atom to which they are attached, a 4-, 5-, 6- or 7-membered saturated ring and D is linked to the carbon atom of the saturated ring;

Y is a counter-ion.

142. (New) The composition of claim 141, wherein the cationic tertiary para-phenylenediamine is such that R_2 corresponds to formula II in which x is equal to 0 and R_4, R_5 and R_6 separately are preferably chosen from a C_1-C_6 alkyl radical, a C_1-C_4 monohydroxyalkyl radical, a C_2-C_4 polyhydroxyalkyl radical, a (C_1-C_6)alkoxy(C_1-C_4)alkyl radical, a C_1-C_6 amidoalkyl radical, a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical, or R_4 with R_5 form together an azetidine ring, a pyrrolidine, piperidine, piperazine or morpholine ring, R_6 being chosen in this case from a C_1-C_6 alkyl radical; a C_1-C_6 monohydroxyalkyl radical, a C_2-C_6 polyhydroxyalkyl radical; a C_1-C_6 aminoalkyl radical, an aminoalkyl radical which is mono- or di-substituted with a (C_1-C_6)alkyl radical, a (C_1-C_6)alkylcarbonyl, amido or (C_1-C_6)alkylsulphonyl radical; a C_1-C_6 carbamylalkyl radical; a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical; a (C_1-C_6)alkyl carboxy(C_1-C_6)alkyl radical; a (C_1-C_6)alkylcarbonyl(C_1-C_6)alkyl radical; an N-(C_1-C_6)alkylcarbamyl(C_1-C_6)alkyl radical.

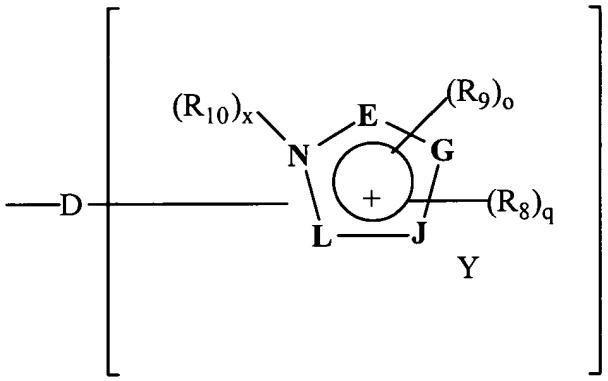
143. (New) The composition of claim 141, wherein the cationic tertiary para-phenylenediamine is such that R_2 corresponds to formula II in which x is equal to 1 and R_7 is chosen from a C_1-C_6 alkyl radical; a C_1-C_6 monohydroxyalkyl radical; a C_2-C_6 polyhydroxy-alkyl radical; a C_1-C_6 aminoalkyl radical, a C_1-C_6 aminoalkyl radical whose amine is mono- or di-substited with a (C_1-C_6)alkyl, (C_1-C_6)alkylcarbonyl, amido or a (C_1-C_6)alkylsulphonyl radical; a C_1-C_6 carbamylalkyl radical, a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical; a (C_1-C_6)alkylcarboxy(C_1-C_6)alkyl radical; a (C_1-C_6)alkylcarbonyl(C_1-C_6)alkyl radical; an N-(C_1-C_6)alkylcarbamyl(C_1-C_6)alkyl radical; R_4 with R_5 together form an azetidine, pyrrolidine,

piperidine, piperazine or morpholine ring, R_6 being chosen in this case from a C_1-C_6 alkyl radical; a C_1-C_6 monohydroxyalkyl radical; a C_2-C_6 polyhydroxyl alkyl radical; a C_1-C_6 aminoalkyl radical; a C_1-C_6 aminoalkyl radical whose amine is mono- or di-substituted with a (C_1-C_6)alkyl, (C_1-C_6)alkylcarbonyl, amido or (C_1-C_6)alkylsulphonyl radical; a C_1-C_6 carbamylalkyl radical; a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical; a (C_1-C_6)alkylcarboxy(C_1-C_6)alkyl radical; a (C_1-C_6)alkylcarbonyl(C_1-C_6)alkyl radical; an N-(C_1-C_6)alkylcarbamyl(C_1-C_6)alkyl radical.

144. (New) The composition of claim 141, wherein the cationic tertiary para-phenylenediamine is such that D is a single bond or an alkylene chain which may be substituted.

145. (New) The composition of claim 141, wherein the cationic tertiary para-phenylenediamine is such that R_2 is a trialkylammonium radical.

146. (New) The composition of claim 41, wherein the cationic tertiary para-phenylenediamine is such that R_2 represents the onium radical Z corresponding to formula III



(III)

in which

D is a single bond or a linear or branched C_1-C_{14} alkylene chain which may contain one or more heteroatoms chosen from oxygen, sulphur or nitrogen, and which may be substituted with one or more hydroxyl, C_1-C_6 alkoxy or amino radicals, and which may carry one or more ketone functional groups;

the vertices E, G, J, L, which are identical or different, represent a carbon, oxygen, sulphur or nitrogen atom to form a pyrrole, pyrazole, imidazole, triazole, oxazole, isooxazole, thiazole, isothiazole ring,

q is an integer between 0 and 4 inclusive;

is an integer between 0 and 3 inclusive;

q+o is an integer between 0 and 4;

the radicals R_8, which are identical or different, represent a halogen atom, a hydroxyl radical, a C_1-C_6 alkyl radical, a C_1-C_6 monohydroxyalkyl radical, a C_2-C_6 polyhydroxyalkyl radical, a C_1-C_6 alkoxy radical, a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical, an amido radical, a carboxyl radical, a C_1-C_6 alkylcarbonyl radical, a thio radical, a C_1-C_6 thioalkyl radical, a (C_1-C_6)alkylthio radical, an amino radical, an amino radical which is mono- or di-substituted with a (C_1-C_6)alkyl, (C_1-C_6)alkylcarbonyl, amido or (C_1-C_6)alkylsulphonyl radical; a C_1-C_6 monohydroxyalkyl radical or a C_2-C_6 polyhydroxyalkyl radical; it being understood that the radicals R_8 are carried by a carbon atom,

the radicals R_9, which are identical or different, represent a C_1-C_6 alkyl radical, a C_1-C_6 monohydroxyalkyl radical, a C_2-C_6 polyhydroxyalkyl radical, a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical, a (C_1-C_6)alkoxy(C_1-C_6)alkyl radical, a C_1-C_6 carbamylalkyl radical, a (C_1-C_6)alkylcarboxy(C_1-C_6)alkyl radical, a benzyl radical; it being understood that the radicals R_9 are carried by a nitrogen,

R_{10} represents a C_1-C_6 alkyl radical; a C_1-C_6 monohydroxyalkyl radical; a C_2-C_6 polyhydroxyalkyl radical; an aryl radical; a benzyl radical; a C_1-C_6 aminoalkyl radical, a C_1-C_6 aminoalkyl radical whose amine is substituted with a (C_1-C_6)alkyl, (C_1-C_6)alkylcarbonyl, amido or (C_1-C_6)alkylsulphonyl radical; a C_1-C_6 carboxyalkyl radical; a C_1-C_6 carbamylalkyl radical; a C_1-C_6 trifluoroalkyl radical; a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical; a C_1-C_6 sulphonamidoalkyl radical; a (C_1-C_6)alkylcarboxy(C_1-C_6)alkyl radical; a (C_1-C_6)alkylsulphonyl(C_1-C_6)alkyl radical; a (C_1-C_6)alkylsulphonyl(C_1-C_6)alkyl radical; a (C_1-

C_6)alkylcarbonyl(C_1-C_6)alkyl radical; an N-(C_1-C_6)alkylcarbamyl(C_1-C_6)alkyl radical; an N-(C_1-C_6)alkylsulphonamido(C_1-C_6)alkyl radical;

x is 0 or 1

when x = 0, the linking arm D is attached to the nitrogen atom,

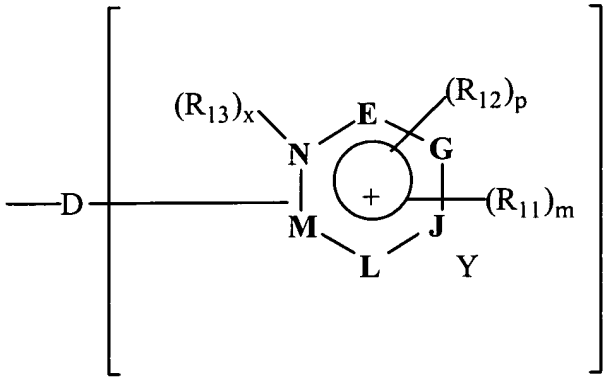
when x = 1, the linking arm D is attached to one of the vertices E, G, J or L,

Y is a counter-ion.

147. (New) The composition of claim 146, wherein the cationic tertiary para-phenylenediamine is such that the vertices E, G, J and L form an imidazole ring.

148. (New) The composition of claim 146, wherein the cationic tertiary para-phenylenediamine is such that x is equal to 0, D is a single bond or an alkylene chain which may be substituted.

149. (New) The composition of claim 41, wherein the cationic tertiary para-phenylenediamine is such that R_2 represents an onium radical Z corresponding to formula IV



(IV)

in which:

D is a single bond or a linear or branched C_1-C_{14} alkylene chain which may contain one or more heteroatoms chosen from an oxygen, sulphur or nitrogen atom, and which

may be substituted with one or more hydroxyl, C_1-C_6 alkoxy or amino radicals, and which may carry one or more ketone functional groups;

the vertices E, G, J, L and M, which are identical or different, represent a carbon, oxygen, sulphur or nitrogen atom to form a ring chosen from the pyridine, pyrimidine, pyrazine, triazine and pyridazine rings;

p is an integer between 0 and 3 inclusive;

m is an integer between 0 and 5 inclusive;

p+m is an integer between 0 and 5;

the radicals R_{11}, which are identical or different, represent a halogen atom, a hydroxyl radical, a C_1-C_6 alkyl radical, a C_1-C_6 monohydroxyalkyl radical, a C_2-C_6 polyhydroxyalkyl radical, a C_1-C_6 alkoxy radical, a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical, an amido radical, a carboxyl radical, a C_1-C_6 alkylcarbonyl radical, a thio radical, a C_1-C_6 thioalkyl radical, a (C_1-C_6)alkylthio radical, an amino radical, an amino radical which is substituted with a (C_1-C_6)alkyl, (C_1-C_6)alkylcarbonyl, amido or (C_1-C_6)alkylsulphonyl radical; a C_1-C_6 monohydroxyalkyl radical or a C_2-C_6 polyhydroxyalkyl radical; it being understood that the radicals R_{11} are carried by a carbon atom,

the radicals R_{12}, which are identical or different, represent a C_1-C_6 alkyl radical, a C_1-C_6 monohydroxyalkyl radical, a C_2-C_6 polyhydroxyalkyl radical, a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical, a (C_1-C_6)alkoxy(C_1-C_6)alkyl radical, a C_1-C_6 carbamylalkyl radical, a (C_1-C_6)alkylcarboxy(C_1-C_6)alkyl radical, a benzyl radical; it being understood that the radicals R_{12} are carried by a nitrogen,

R_{13} represents a C_1-C_6 alkyl radical; a C_1-C_6 monohydroxyalkyl radical; a C_2-C_6 polyhydroxyalkyl radical; an aryl radical; a benzyl radical; a C_1-C_6 aminoalkyl radical, a C_1-C_6 aminoalkyl radical whose amine is mono- or di-substituted with a (C_1-C_6)alkyl, (C_1-C_6)alkylcarbonyl, amido or (C_1-C_6)alkylsulphonyl radical; a C_1-C_6 carboxyalkyl radical; a C_1-C_6 carbamylalkyl radical; a C_1-C_6 trifluoroalkyl radical; a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical; a C_1-C_6 sulphonamidoalkyl radical; a (C_1-C_6)alkylcarboxy(C_1-C_6)alkyl radical; a (C_1-C_6)alkylsulphonyl(C_1-

C_6)alkyl radical; a (C_1-C_6)alkylsulphonyl(C_1-C_6)alkyl radical; a (C_1-C_6)alkylcarbonyl(C_1-C_6)alkyl radical; an N-(C_1-C_6)alkylcarbamyl(C_1-C_6)alkyl radical; an N-(C_1-C_6)alkylsulphonamido(C_1-C_6)alkyl radical;

x is 0 or 1

when x = 0, the linking arm D is attached to the nitrogen atom,

when x = 1, the linking arm D is attached to one of the vertices E, G, J, L or M,

Y is a counter-ion.

150. (New) The composition of claim 149, wherein the vertices E, G, J, L and M form, with the nitrogen of the ring, a ring chosen from pyridine and pyrimidine rings.

151. (New) The composition of claim 149, wherein the cationic tertiary para-phenylenediamine is such that x is equal to 0 and R_{11} is chosen from a hydroxyl radical, a C_1-C_6 alkyl radical, a C_1-C_6 monohydroxyalkyl radical, a C_2-C_6 polyhydroxyalkyl radical, a C_1-C_6 alkoxy radical, a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical, an amido radical, a C_1-C_6 alkylcarbonyl radical, an amino radical, an amino radical which is mono- or di-substituted with a (C_1-C_6)alkyl, a (C_1-C_6)alkylcarbonyl, amido or (C_1-C_6)alkylsulphonyl radical; a C_1-C_6 monohydroxyalkyl radical or a C_2-C_6 polyhydroxyalkyl radical and R_{12} is chosen from a C_1-C_6 alkyl radical, a C_1-C_6 monohydroxyalkyl radical, a C_2-C_6 polyhydroxyalkyl radical, a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical, a (C_1-C_6)alkoxy(C_1-C_6)alkyl radical, a C_1-C_6 carbamylalkyl radical.

152. (New) The composition of claim 149, wherein the cationic tertiary para-phenylenediamine is such that x is equal to 1 and R_{13} is chosen from a C_1-C_6 alkyl radical; a C_1-C_6 monohydroxyalkyl radical; a C_2-C_6 polyhydroxyalkyl radical; a C_1-C_6 aminoalkyl radical, a C_1-C_6 aminoalkyl radical whose amine is mono- or di-substituted with a (C_1-C_6)alkyl radical, a (C_1-C_6)alkylcarbonyl radical, an amido radical, a (C_1-C_6)alkylsulphonyl radical; a C_1-C_6 carbamylalkyl radical; a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical; a (C_1-C_6)alkylcarbonyl(C_1-C_6)alkyl radical; an N-(C_1-C_6)alkylcarbamyl(C_1-C_6)alkyl radical; R_{11} is chosen from a hydroxyl radical, a C_1-C_6 alkyl radical, a C_1-C_6 monohydroxyalkyl radical, a C_2-C_6 polyhydroxyalkyl radical, a C_1-C_6 alkoxy radical, a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical, an amido radical, a C_1-C_6 alkylcarbonyl radical, an amino radical, an amino radical which is mono- or di- substituted

with a (C_1-C_6)alkyl, (C_1-C_6)alkylcarbonyl, amido or (C_1-C_6)alkylsulphonyl radical; and R_{12} is chosen from a C_1-C_6 alkyl radical, a C_1-C_6 monohydroxyalkyl radical, a C_2-C_6 polyhydroxyalkyl radical, a tri(C_1-C_6)alkylsilane(C_1-C_6)alkyl radical, a (C_1-C_6)alkoxy(C_1-C_6)alkyl radical, a C_1-C_6 carbamylalkyl radical.

153. (New) The composition of claim 149, wherein the cationic tertiary para-phenylenediamine is such that R_{11}, R_{12} and R_{13} are alkyl radicals which may be substituted.

154. (New) The composition of claim 41, wherein the cationic tertiary para-phenylenediamine is such that the radical R_2 is the radical of formula -XP(O)(O-) $OCH_2CH_2N^+(CH_3)_3$ where X represents an oxygen atom or a radical $-NR_{14}$, R_{14} representing a hydrogen, a C_1-C_4 alkyl radical or a hydroxyalkyl radical.

155. (New) The composition of claim 41, wherein the cationic tertiary para-phenylenediamine is such that the radical R_2 is a guanidine radical of formula $-X-C=NR_8-NR_9R_{10}$, X represents an oxygen atom or a radical $-NR_{11}$, R_8, R_9, R_{10} and R_{11} representing a hydrogen, a C_1-C_4 alkyl radical or a hydroxyalkyl radical.

156. (New) The composition of claim 41, wherein the cationic tertiary para-phenylene is chosen from the group consisting of:

[1-(4-Aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride,

[1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyltetradecylammonium bromide

N'-[1-(4-Aminophenyl)pyrrolidin-3-yl]-N,N-dimethyl-guanidinium chloride

N-[1-(4-Aminophenyl)pyrrolidin-3-yl]guanidinium chloride

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride

[1-(4-Aminophenyl)pyrrolidin-3-yl]-(2-hydroxyethyl)dimethylammonium chloride

[1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyl-(3-trimethylsilanylpropyl)ammonium chloride

[1-(4-Aminophenyl)pyrrolidin-3-yl]-(trimethylammonium-hexyl)dimethylammonium dichloride

[1-(4-Aminophenyl)pyrrolidin-3-yl]oxophosphorylcholine

{2-[1-(4-Aminophenyl)pyrrolidin-3-yloxy]ethyl}trimethylammonium chloride

1-{2-[1-(4-Aminophenyl)pyrrolidin-3-yloxy]ethyl}-1-methylpyrrolidinium chloride

3-{3-[1-(4-Aminophenyl)pyrrolidin-3-yloxy]propyl}-1-methyl-3H-imidazol-1-ium chloride

1-{2-[1-(4-Aminophenyl)pyrrolidin-3-yloxy]ethyl}-1-methylpiperidinium chloride

3-{3-[1-(5-trimethylsilanylethyl-4-Amino-3- trimethylsilanylethylphenyl)pyrrolidin-3-yloxy]propyl}-1-methyl-3H-imidazol-1-um chloride

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]trimethyammonium chloride

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]dimethyltetradecylammonium chloride

N'-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-N,N-dimethylguanidinium chloride

N-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]guanidinium chloride

3-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-(2-hydroxyethyl)dimethylammonium chloride

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]dimethyl-(3-trimethylsilanylpropylammonium chloride

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-(trimethylammoniumhexyl-dimethylammonium dichloride

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]oxophosphorylcholine

{2-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yloxy]ethyl}trimethylammonium chloride

1-{2-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yloxy]ethyl}-1-methylpyrrolidinium chloride

3-{3-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yloxy]-propyl}1-methyl-3H-imidazol-1-um chloride

1-{2-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yloxy]ethyl}-1-methylpiperidinium chloride

[1-(4-Amino-3-trimethylsilanylethylphenyl)pyrrolidin-3-yl]trimethylammonium chloride

3-[1-(4-Amino-3-trimethylsilanylethylphenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride

3-{3-[1-(4-Amino-3-trimethylsilanylethylphenyl)pyrrolidin-3-yloxy]propyl}-1-methyl-3H-imidazol-1-um chloride

[1-(5-trimethylsilanylethyl-4-Amino-3-trimethylsilanylethylphenyl)pyrrolidin-3-yl]trimethylammonium chloride

3-[1-(5-trimethylsilanylethyl-4-Amino-3-trimethylsilanylethylphenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride

1'-(4-Aminophenyl)-1-methyl-[1,3']bipyrrolidinyl-1-ium chloride

1'-(4-Amino-3-methylphenyl)-1-methyl-[1,3']bipyrrolidinyl-1-ium chloride

3-{[1-(4-Aminophenyl)pyrrolidin-3-ylcarbamoyl]methyl}-1-methyl-3H-imidazol-1-ium chloride

3-{[1-(4-Amino-3-methylphenyl)pyrrolidin-3-ylcarbamoyl]methyl}-1-methyl-3H-imidazol-1-ium chloride

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-(3-trimethylsilanylpropyl)-3H-imidazol-1-ium chloride

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-(3-trimethylsilanylpropyl)-3H-imidazol-1-ium chloride

[1-(4-aminophenyl)pyrrolidin-3-yl]ethyldimethylammonium chloride

[1-(4-aminophenyl)pyrrolidin-3-yl]ethyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]propyldimethylammonium iodide,

[1-(4-aminophenyl)pyrrolidin-3-yl]propyldimethylammonium bromide

[1-(4-aminophenyl)pyrrolidin-3-yl]propyldimethylammonium methosulphate

[1-(4-aminophenyl)pyrrolidin-3-yl]butyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]pentyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]hexyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]heptyldimethylammonium iodide

[1-(4-Aminophenyl)pyrrolidin-3-yl]octyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]decyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]hexadecyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]hydroxyethyldimethylammonium chloride

[1-(4-aminophenyl)pyrrolidin-3-yl]hydroxyethyldimethylammonium iodide.

157. (New) The composition of claim 41, wherein the cationic tertiary para-phenylene is chosen from the group consisting of:

[1-(4-Aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride

[1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyltetradecylammonium bromide

N'-[1-(4-Aminophenyl)pyrrolidin-3-yl]-N,N-dimethylguanidinium chloride

N-[1-(4-Aminophenyl)pyrrolidin-3-yl]guanidinium chloride

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride

[1-(4-Aminophenyl)pyrrolidin-3-yl](2-hydroxyethyl)dimethylammonium chloride

[1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyl-(3-trimethylsilanylpropyl)ammonium chloride

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]trimethylammonium chloride

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]dimethyltetradecylammonium chloride

N'-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-N,N-dimethylguanidinium chloride

N-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]guanidinium chloride

3-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-(2-hydroxyethyl)dimethylammonium chloride

[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]dimethyl-(3-trimethylsilanylpropylammonium chloride

1'-(4-Aminophenyl)-1-methyl-[1,3']bipyrrolidinyl-1-ium chloride

1'-(4-Amino-3-methylphenyl)-1-methyl-[1,3']bipyrrolidinyl-1-ium chloride

3-{[1-(4-Aminophenyl)pyrrolidin-3-ylcarbamoyl]methyl}-1-methyl-3H-imidazol-1-ium chloride

3-{[1-(4-Amino-3-methylphenyl)pyrrolidin-3-ylcarbamoyl]methyl}-1-methyl-3H-imidazol-1-ium chloride

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-(3-trimethylsilanylpropyl)-3H-imidazol-1-ium chloride

3-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-1-(3-trimethylsilanyl-propyl)-3H-imidazol-1-ium chloride

[1-(4-aminophenyl)pyrrolidin-3-yl]ethyldimethylammonium chloride

[1-(4-aminophenyl)pyrrolidin-3-yl]ethyldimethylammonium iodide

[1-(4-Aminophenyl)pyrrolidin-3-yl]propyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]propyldimethylammonium bromide

[1-(4-aminophenyl)pyrrolidin-3-yl]propyldimethylammonium methosulphate

[1-(4-aminophenyl)pyrrolidin-3-yl]butyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]pentyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]hexyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]heptyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]octyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]decyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]hexadecyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]hydroxyethyldimethylammonium chloride

[1-(4-aminophenyl)pyrrolidin-3-yl]hydroxyethyldimethylammonium iodide.

158. (New) The composition of claim 41, wherein the cationic tertiary para-phenylene is chosen from the group consisting of:

[1-(4-Aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride

[1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyltetradecylammonium bromide

N'-[1-(4-Aminophenyl)pyrrolidin-3-yl]-N,N-dimethylguanidinium chloride

N-[1-(4-Aminophenyl)pyrrolidin-3-yl]guanidinium chloride

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride

[1-(4-Aminophenyl)pyrrolidin-3-yl]-(2-hydroxyethyl)dimethylammonium chloride

[1-(4-Aminophenyl)pyrrolidin-3-yl]dimethyl-(3-trimethylsilanylpropyl)ammonium chloride

[1-(4-Aminophenyl)pyrrolidin-3-yl]-(trimethylammoniumhexyl)dimethylammonium dichloride

1'-(4-Aminophenyl)-1-methyl-[1,3']bipyrrolidinyl-1-ium chloride

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-(3-trimethylsilanylpropyl)-3H-imidazol-1-ium chloride

3-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-1-(3-trimethylsilanylpropyl)-3H-imidazol-1-ium chloride

[1-(4-aminophenyl)pyrrolidin-3-yl]ethyldimethylammonium chloride

[1-(4-aminophenyl)pyrrolidin-3-yl]ethyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]propyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]propyldimethylammonium bromide

[1-(4-aminophenyl)pyrrolidin-3-yl]propyldimethylammonium methosulphate

[1-(4-aminophenyl)pyrrolidin-3-yl]butyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]pentyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]hexyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]heptyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]octyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]decyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]hexadecyldimethylammonium iodide

[1-(4-aminophenyl)pyrrolidin-3-yl]hydroxyethyldimethylammonium chloride

[1-(4-aminophenyl)pyrrolidin-3-yl]hydroxyethyldimethylammonium iodide.

159. (New) The composition of claim 41, wherein the cationic tertiary para-phenylene is chosen from the group consisting of:

[1-(4-Aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride

3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride

[1-(4-Aminophenyl)pyrrolidin-3-yl]-(2-hydroxyethyl)dimethylammonium chloride

1'-(4-Aminophenyl)-1-methyl-[1,3']bipyrrolidinyl-1-ium chloride.

160. (New) The composition of claim 41, wherein the cationic tertiary para-phenylene is chosen from the group consisting of:

[1-(4-Aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride, and

[1-(4-Aminophenyl)pyrrolidin-3-yl]-(2-hydroxyethyl)dimethylammonium chloride.